

09/ 623,737

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NEWS 13 Dec 17 SYNTHLINE from Prous Science now available on STN  
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09/ 623,737

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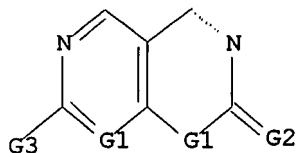
Uploading 623737.str

L1 STRUCTURE UPLOADED

=> d 11

L1 HAS NO ANSWERS

L1 STR



G1 C,N

G2 O,S,N

G3 S,N

Structure attributes must be viewed using STN Express query preparation.

=> s 11

SAMPLE SEARCH INITIATED 10:50:33 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 4724 TO ITERATE

21.2% PROCESSED 1000 ITERATIONS  
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
SEARCH TIME: 00.00.01

9 ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*

09/ 623,737

PROJECTED ITERATIONS: 90363 TO 98597  
PROJECTED ANSWERS: 459 TO 1241

L2 9 SEA SSS SAM L1

=> s l1 ful

FULL SEARCH INITIATED 10:50:41 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 94858 TO ITERATE

100.0% PROCESSED 94858 ITERATIONS 510 ANSWERS  
SEARCH TIME: 00.00.07

L3 510 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	133.56	133.71

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FILE COVERS 1967 - 31 Jan 2001 VOL 134 ISS 6  
FILE LAST UPDATED: 30 Jan 2001 (20010130/ED)

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=> s 13

L4                36 L3

=> d 14 1- ibiba abs hitstr

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 ALL ----- BIB, AB, IND, RE  
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 CAN ----- List of CA abstract numbers without answer numbers  
 CBIB ----- AN, plus Compressed Bibliographic Data  
 DALL ----- ALL, delimited (end of each field identified)  
 DMAX ----- MAX, delimited for post-processing  
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 FBIB ----- AN, BIB, plus Patent FAM  
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 PATS ----- PI, SO  
 SAM ----- CC, SX, TI, ST, IT  
 SCAN ----- CC, SX, TI, ST, IT (random display, no answer numbers;  
                   SCAN must be entered on the same line as the DISPLAY,  
                   e.g., D SCAN or DISPLAY SCAN)  
 STD ----- BIB, IPC, and NCL

IABS ----- ABS, indented with text labels  
 IALL ----- ALL, indented with text labels  
 IBIB ----- BIB, indented with text labels  
 IMAX ----- MAX, indented with text labels  
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HIT ----- Fields containing hit terms  
 HITIND ----- IC, ICA, ICI, NCL, CC and index field (ST and IT)  
                   containing hit terms  
 HITRN ----- HIT RN and its text modification  
 HITSTR ----- HIT RN, its text modification, its CA index name, and  
                   its structure diagram  
 FHITSTR ----- First HIT RN, its text modification, its CA index name, and  
                   its structure diagram  
 KWIC ----- Hit term plus 20 words on either side  
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YOU HAVE REQUESTED DATA FROM 36 ANSWERS - CONTINUE? Y/(N):y

L4 ANSWER 1 OF 36 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 2000:318168 CAPLUS

DOCUMENT NUMBER: 133:73998

TITLE: Synthesis and transformation of 2-thioxopyrimido[4,5-d]pyrimidines

AUTHOR(S): Shaker, Rafat M.

CORPORATE SOURCE: Chemistry Department, Faculty of Science, El-Minia University, El-Minia, Egypt

SOURCE: Phosphorus, Sulfur Silicon Relat. Elem. (2000), 158, 9-16

CODEN: PSSLEC; ISSN: 1042-6507

PUBLISHER: Gordon & Breach Science Publishers

DOCUMENT TYPE: Journal

LANGUAGE: English

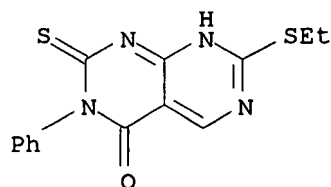
AB Synthesis of bicyclic system pyrimido[4,5-d]pyrimidines and its S-mono- and unsym. S,S'-di-substituted derivs. are described.

IT 280107-36-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)  
(synthesis and transformation of 2-thioxopyrimido[4,5-d]pyrimidines)

RN 280107-36-0 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-4(1H)-one, 7-(ethylthio)-2,3-dihydro-3-phenyl-2-thioxo- (9CI) (CA INDEX NAME)

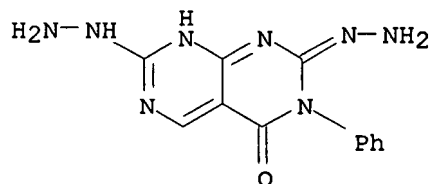


IT 280107-38-2P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(synthesis and transformation of 2-thioxopyrimido[4,5-d]pyrimidines)

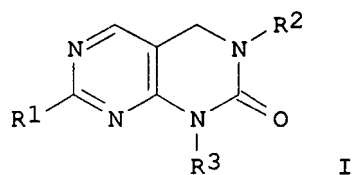
RN 280107-38-2 CAPLUS

CN Pyrimido[4,5-d]pyrimidine-2,4,7(1H,3H,6H)-trione, 3-phenyl-, 2,7-dihydrazone (9CI) (CA INDEX NAME)



L4 ANSWER 2 OF 36 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 2000:291041 CAPLUS  
 DOCUMENT NUMBER: 132:308352  
 TITLE: Preparation of pyrimidopyrimidinones as T-cell tyrosine kinase inhibitors  
 INVENTOR(S): Harris, William; Hill, Christopher Huw; Smith, Ian Edward David  
 PATENT ASSIGNEE(S): F. Hoffmann-La Roche A.-G., Switz.  
 SOURCE: PCT Int. Appl., 109 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000024744	A1	20000504	WO 1999-EP7675	19991013
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
<u>US 6150373</u>	A	20001121	US 1999-422451	19991021
PRIORITY APPLN. INFO.:			GB 1998-23277	19981023
			GB 1999-20044	19990824
OTHER SOURCE(S):			MARPAT 132:308352	
GI				



AB Title compds. [I; R1 = NH2, alkylamino, (hetero)aryl(alkyl)amino; R2 = alkyl (hetero)aryl(alkyl); R3 = H, alkyl, (hetero)aryl(alkyl),

cycloalkenyl] were prepd. Thus, Et 4-chloro-2-methylthiopyrimidine-5-carboxylate was aminated by MeNH<sub>2</sub> and the product converted to the aldehyde which was condensed with 2,6-Cl<sub>2</sub>C<sub>6</sub>H<sub>3</sub>NH<sub>2</sub> to give 2,6-Cl<sub>2</sub>C<sub>6</sub>H<sub>3</sub>NHCH<sub>2</sub>ZNHMe (Z = 2-methylthiopyrimidine-5,4-diyl). The latter was cyclocondensed with COCl<sub>2</sub> and the the product oxidized to give I (R<sub>2</sub>

=

2,6-Cl<sub>2</sub>C<sub>6</sub>H<sub>3</sub>NHCH<sub>2</sub>, R<sub>3</sub> = Me) (II; R<sub>1</sub> = SO<sub>2</sub>Me) which was aminated by 4-(H<sub>2</sub>N)C<sub>6</sub>H<sub>4</sub>OCH<sub>2</sub>CH<sub>2</sub>NEt<sub>2</sub> (prepn. given) to give II [R<sub>1</sub> = 4-(Et<sub>2</sub>NCH<sub>2</sub>CH<sub>2</sub>O)C<sub>6</sub>H<sub>4</sub>NH]. Data for biol. activity of I were given.

IT

266312-86-1P 266312-87-2P 266312-88-3P  
 266312-89-4P 266312-90-7P 266312-92-9P  
 266312-93-0P 266312-94-1P 266312-95-2P  
 266312-97-4P 266312-98-5P 266312-99-6P  
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 266313-73-9P 266313-74-0P 266313-75-1P  
 266313-76-2P 266313-77-3P 266313-78-4P  
 266313-79-5P 266313-80-8P

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

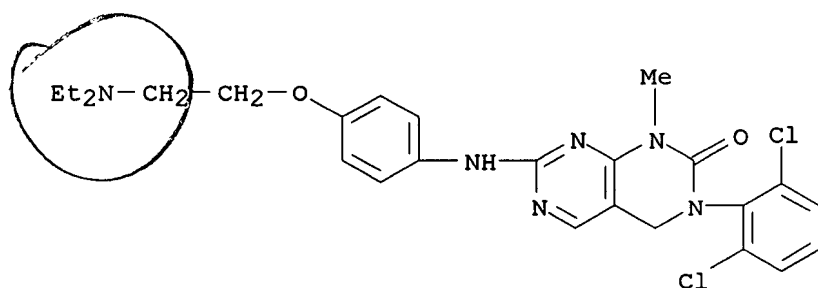
(prepn. of pyrimidopyrimidinones as T-cell tyrosine kinase inhibitors)

RN

266312-86-1 CAPLUS

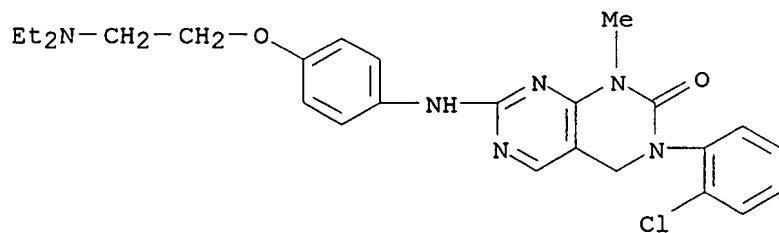
CN

Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,6-dichlorophenyl)-7-[[4-[2-(diethylamino)ethoxy]phenyl]amino]-3,4-dihydro-1-methyl- (9CI) (CA INDEX NAME)



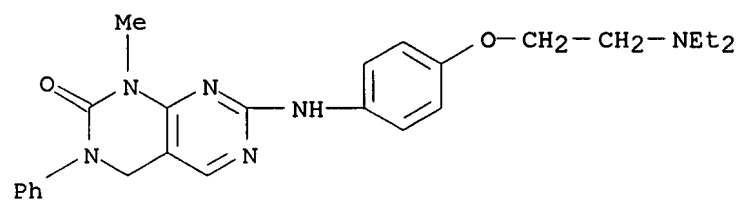
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CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2-chlorophenyl)-7-[[4-[2-(diethylamino)ethoxy]phenyl]amino]-3,4-dihydro-1-methyl- (9CI) (CA INDEX NAME)



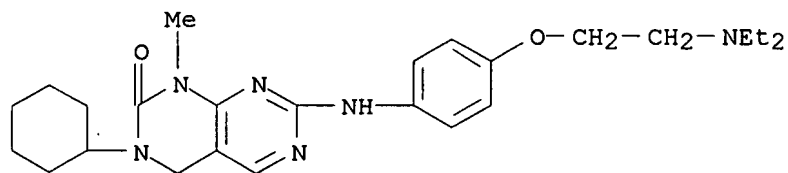
RN 266312-88-3 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 7-[[4-[2-(diethylamino)ethoxy]phenyl]amino]-3,4-dihydro-1-methyl-3-phenyl- (9CI) (CA INDEX NAME)



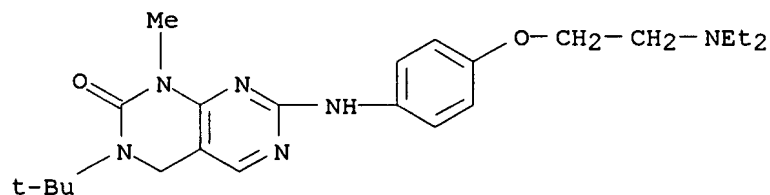
RN 266312-89-4 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-cyclohexyl-7-[[4-[2-(diethylamino)ethoxy]phenyl]amino]-3,4-dihydro-1-methyl- (9CI) (CA INDEX NAME)





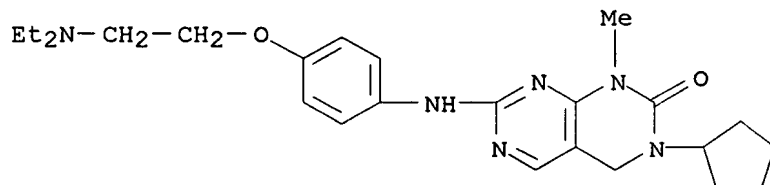
RN 266312-90-7 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one,  
 7-[[4-[2-(diethylamino)ethoxy]phenyl]a  
 mino]-3-(1,1-dimethylethyl)-3,4-dihydro-1-methyl- (9CI) (CA INDEX NAME)



RN 266312-92-9 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-cyclopentyl-7-[[4-[2-(diethylamino)ethoxy]phenyl]amino]-3,4-dihydro-1-methyl-,  
 mono(trifluoroacetate) (9CI) (CA INDEX NAME)

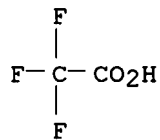
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CRN 266312-91-8  
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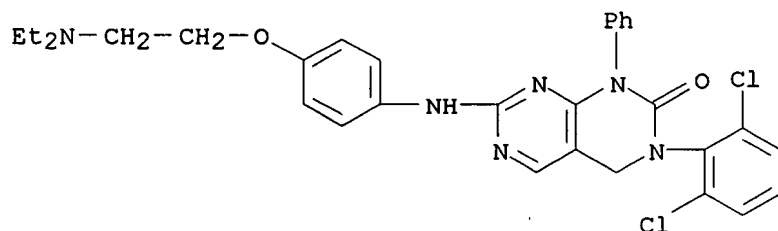


CM 2

CRN 76-05-1  
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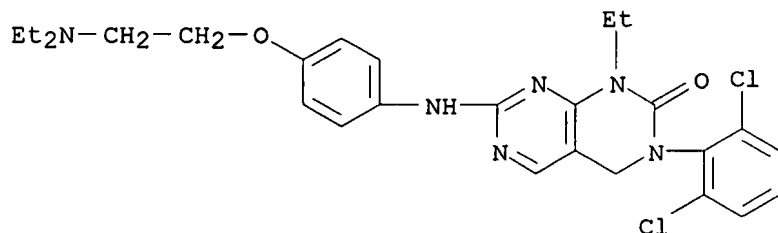


RN 266312-93-0 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,6-dichlorophenyl)-7-[[4-[2-(diethylamino)ethoxy]phenyl]amino]-3,4-dihydro-1-phenyl- (9CI) (CA INDEX NAME)



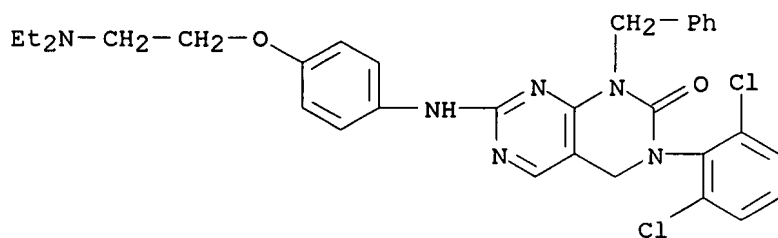
RN 266312-94-1 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,6-dichlorophenyl)-7-[[4-[2-(diethylamino)ethoxy]phenyl]amino]-1-ethyl-3,4-dihydro- (9CI) (CA INDEX NAME)



RN 266312-95-2 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,6-dichlorophenyl)-7-[[4-[2-(diethylamino)ethoxy]phenyl]amino]-3,4-dihydro-1-(phenylmethyl)- (9CI) (CA INDEX NAME)



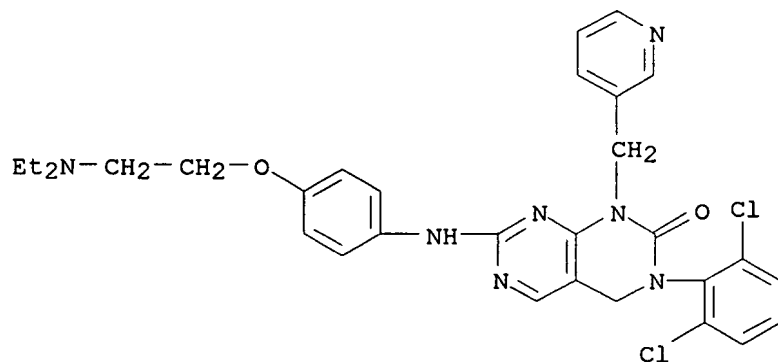
RN 266312-97-4 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,6-dichlorophenyl)-7-[[4-[2-(diethylamino)ethoxy]phenyl]amino]-3,4-dihydro-1-(3-pyridinylmethyl)-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

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CRN 266312-96-3

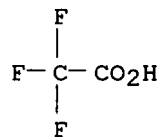
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CM 2

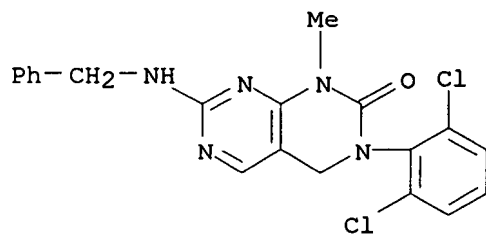
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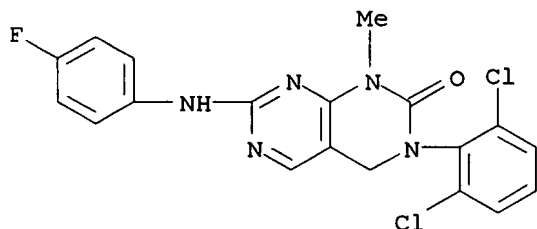
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CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,6-dichlorophenyl)-3,4-dihydro-1-methyl-7-[(phenylmethyl)amino]- (9CI) (CA INDEX NAME)



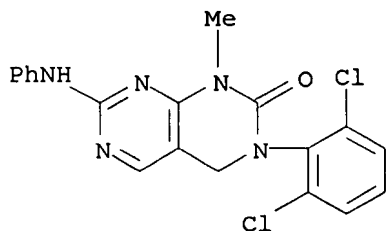
RN 266312-99-6 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,6-dichlorophenyl)-7-[(4-fluorophenyl)amino]-3,4-dihydro-1-methyl- (9CI) (CA INDEX NAME)



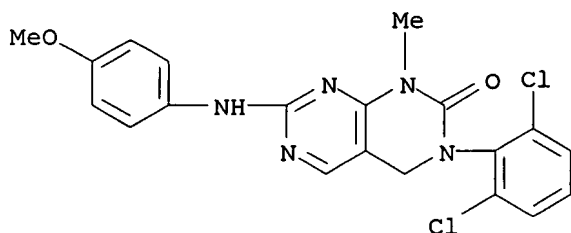
RN 266313-00-2 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,6-dichlorophenyl)-3,4-dihydro-1-methyl-7-(phenylamino)- (9CI) (CA INDEX NAME)



RN 266313-01-3 CAPLUS

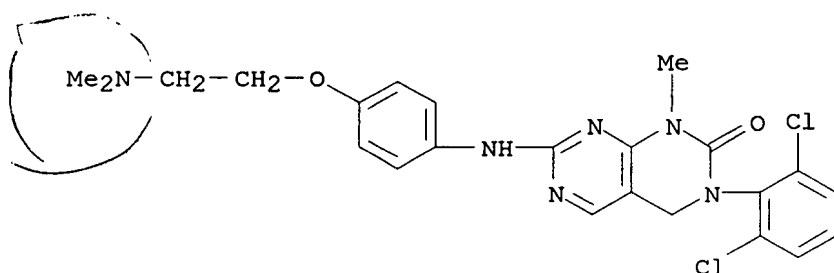
CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,6-dichlorophenyl)-3,4-dihydro-7-[(4-methoxyphenyl)amino]-1-methyl- (9CI) (CA INDEX NAME)



RN 266313-02-4 CAPLUS

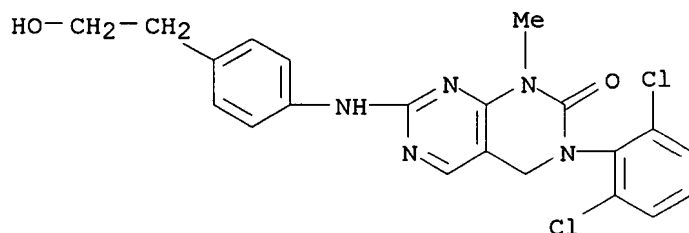
CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,6-dichlorophenyl)-7-[[4-[2-(dimethylamino)ethoxy]phenyl]amino]-3,4-dihydro-1-methyl- (9CI) (CA

INDEX  
NAME)



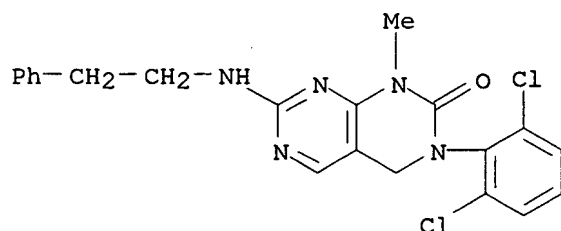
RN 266313-03-5 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,6-dichlorophenyl)-3,4-dihydro-7-[[4-(2-hydroxyethyl)phenyl]amino]-1-methyl- (9CI) (CA INDEX NAME)



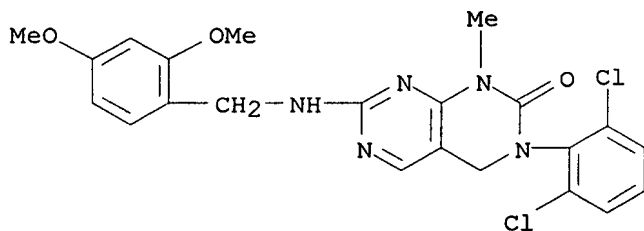
RN 266313-04-6 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,6-dichlorophenyl)-3,4-dihydro-1-methyl-7-[(2-phenylethyl)amino]- (9CI) (CA INDEX NAME)



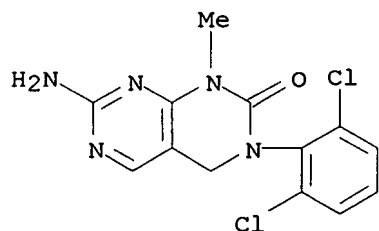
RN 266313-05-7 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,6-dichlorophenyl)-7-[[[(2,4-dimethoxyphenyl)methyl]amino]-3,4-dihydro-1-methyl- (9CI) (CA INDEX NAME)



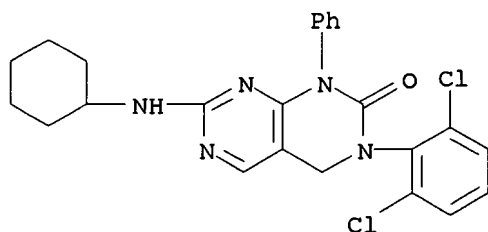
RN 266313-06-8 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 7-amino-3-(2,6-dichlorophenyl)-3,4-dihydro-1-methyl- (9CI) (CA INDEX NAME)



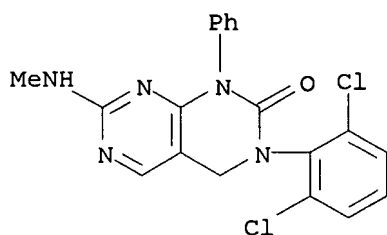
RN 266313-07-9 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 7-(cyclohexylamino)-3-(2,6-dichlorophenyl)-3,4-dihydro-1-phenyl- (9CI) (CA INDEX NAME)



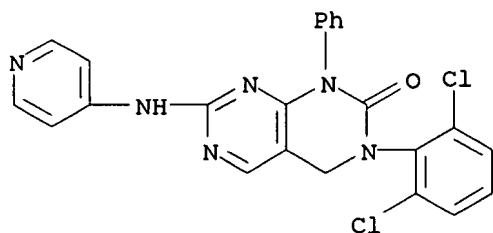
RN 266313-08-0 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,6-dichlorophenyl)-3,4-dihydro-7-(methylamino)-1-phenyl- (9CI) (CA INDEX NAME)



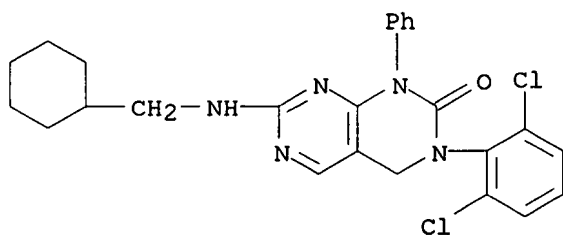
RN 266313-09-1 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,6-dichlorophenyl)-3,4-dihydro-1-phenyl-7-(4-pyridinylamino)- (9CI) (CA INDEX NAME)



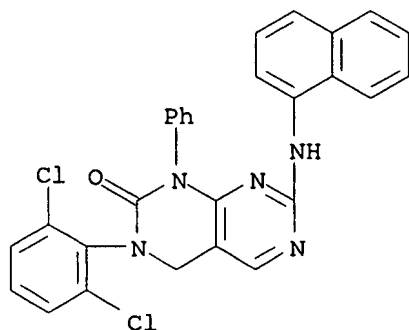
RN 266313-10-4 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 7-[(cyclohexylmethyl)amino]-3-(2,6-dichlorophenyl)-3,4-dihydro-1-phenyl- (9CI) (CA INDEX NAME)



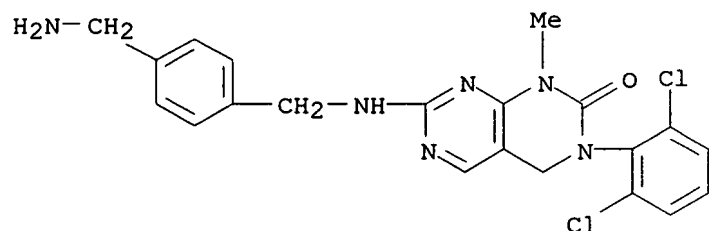
RN 266313-11-5 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,6-dichlorophenyl)-3,4-dihydro-7-(1-naphthalenylamino)-1-phenyl- (9CI) (CA INDEX NAME)



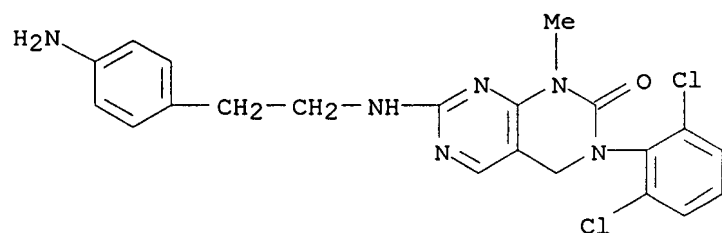
RN 266313-12-6 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one,  
7-[[[4-(aminomethyl)phenyl]methyl]amin  
o]-3-(2,6-dichlorophenyl)-3,4-dihydro-1-methyl- (9CI) (CA INDEX NAME)



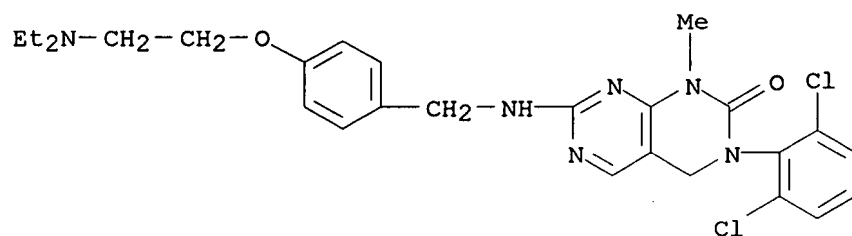
RN 266313-13-7 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 7-[[2-(4-aminophenyl)ethyl]amino]-3-(2,6-dichlorophenyl)-3,4-dihydro-1-methyl- (9CI) (CA INDEX NAME)



RN 266313-14-8 CAPLUS

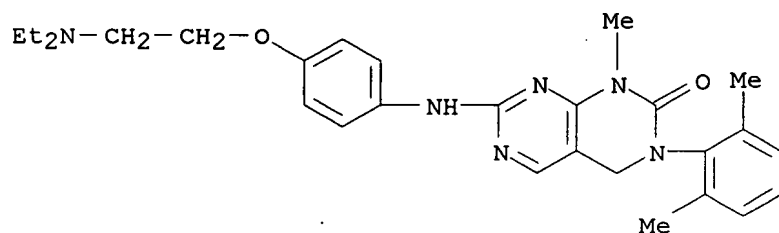
CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,6-dichlorophenyl)-7-[[[4-[2-(diethylamino)ethoxy]phenyl]methyl]amino]-3,4-dihydro-1-methyl- (9CI)  
(CA INDEX NAME)



RN 266313-15-9 CAPLUS

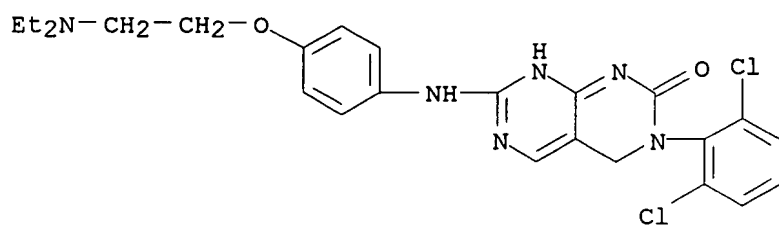
CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 7-[[4-[2-(diethylamino)ethoxy]phenyl]amino]-3-(2,6-dimethylphenyl)-3,4-dihydro-1-methyl- (9CI) (CA INDEX NAME)





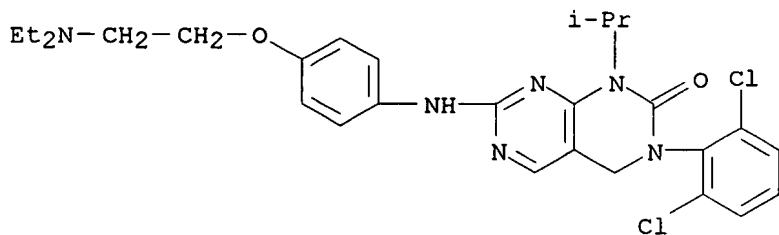
RN 266313-16-0 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,6-dichlorophenyl)-7-[[4-[2-(diethylamino)ethoxy]phenyl]amino]-3,4-dihydro- (9CI) (CA INDEX NAME)



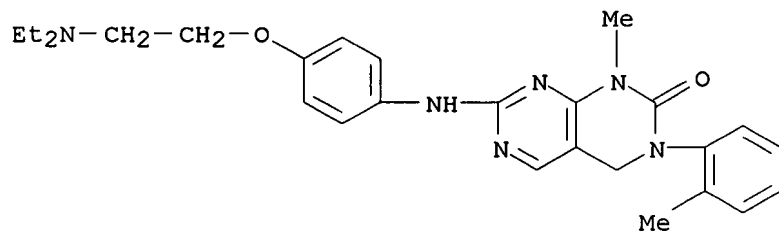
RN 266313-17-1 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,6-dichlorophenyl)-7-[[4-[2-(diethylamino)ethoxy]phenyl]amino]-3,4-dihydro-1-(1-methylethyl)- (9CI) (CA INDEX NAME)



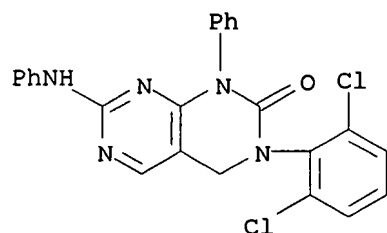
RN 266313-18-2 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 7-[[4-[2-(diethylamino)ethoxy]phenyl]amino]-3,4-dihydro-1-methyl-3-(2-methylphenyl)- (9CI) (CA INDEX NAME)



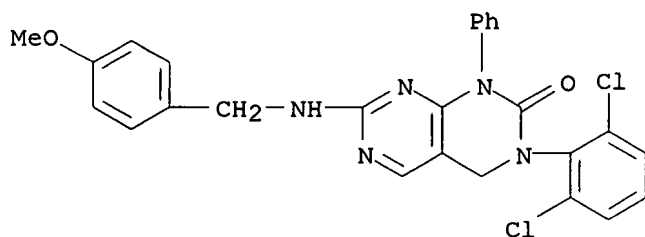
RN 266313-19-3 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,6-dichlorophenyl)-3,4-dihydro-1-phenyl-7-(phenylamino)- (9CI) (CA INDEX NAME)



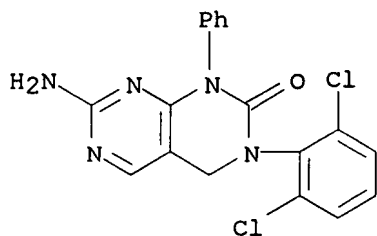
RN 266313-20-6 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,6-dichlorophenyl)-3,4-dihydro-7-[[4-methoxyphenyl)methyl]amino]-1-phenyl- (9CI) (CA INDEX NAME)



RN 266313-21-7 CAPLUS

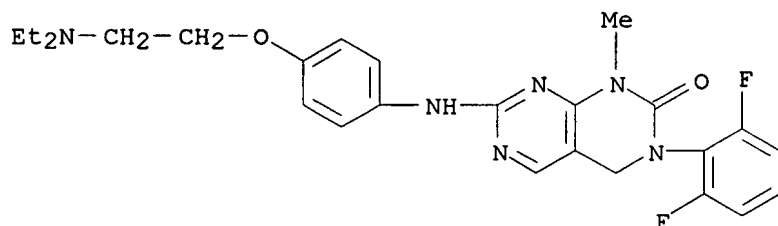
CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 7-amino-3-(2,6-dichlorophenyl)-3,4-dihydro-1-phenyl- (9CI) (CA INDEX NAME)



RN 266313-22-8 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one,

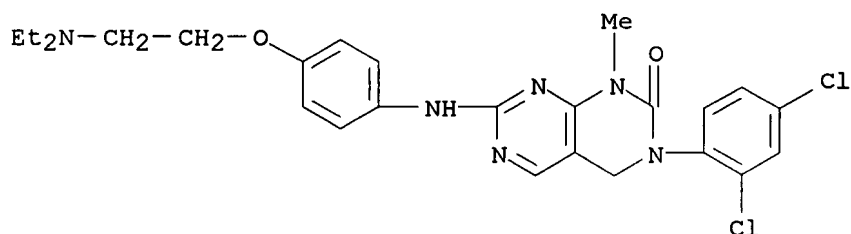
7-[[4-[2-(diethylamino)ethoxy]phenyl]amino]-3-(2,6-difluorophenyl)-3,4-dihydro-1-methyl- (9CI) (CA INDEX NAME)



RN 266313-23-9 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,4-dichlorophenyl)-7-[[4-[2-

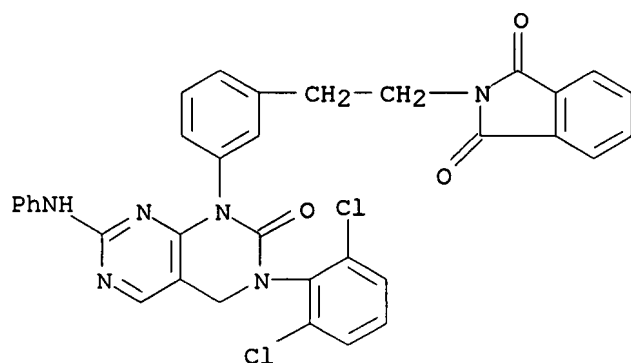
(diethylamino)ethoxy]phenyl]amino]-3,4-dihydro-1-methyl- (9CI) (CA INDEX NAME)



RN 266313-24-0 CAPLUS

CN 1H-Isoindole-1,3(2H)-dione,

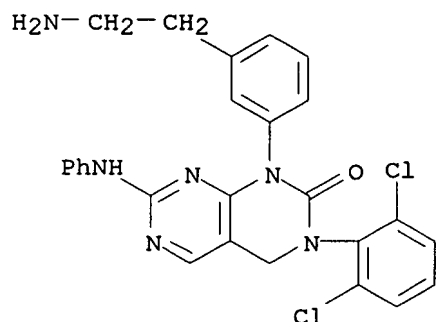
2-[2-[3-[3-(2,6-dichlorophenyl)-3,4-dihydro-2-oxo-7-(phenylamino)pyrimido[4,5-d]pyrimidin-1(2H)-yl]phenyl]ethyl]- (9CI) (CA INDEX NAME)



RN 266313-25-1 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-[3-(2-aminoethyl)phenyl]-3-(2,6-

dichlorophenyl)-3,4-dihydro-7-(phenylamino)- (9CI) (CA INDEX NAME)

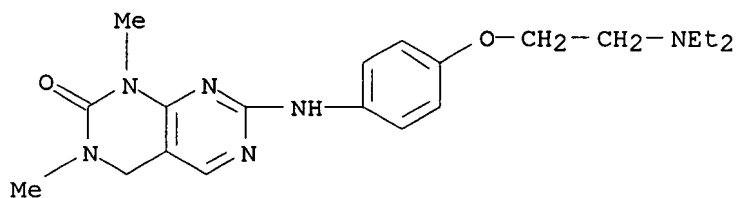


RN 266313-26-2 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one,

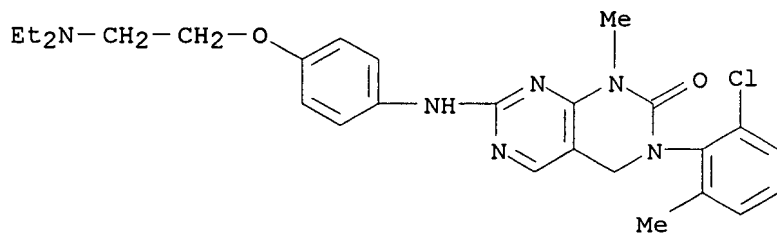
7-[[4-[2-(diethylamino)ethoxy]phenyl]a

mino]-3,4-dihydro-1,3-dimethyl- (9CI) (CA INDEX NAME)



RN 266313-27-3 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2-chloro-6-methylphenyl)-7-[[4-[2-(diethylamino)ethoxy]phenyl]amino]-3,4-dihydro-1-methyl- (9CI) (CA INDEX NAME)

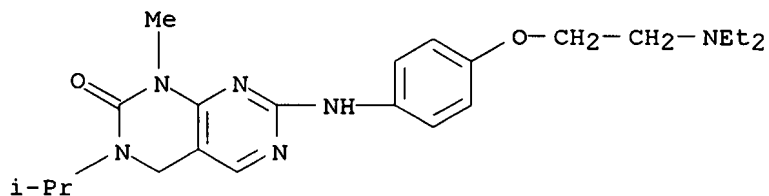


RN 266313-28-4 CAPLUS

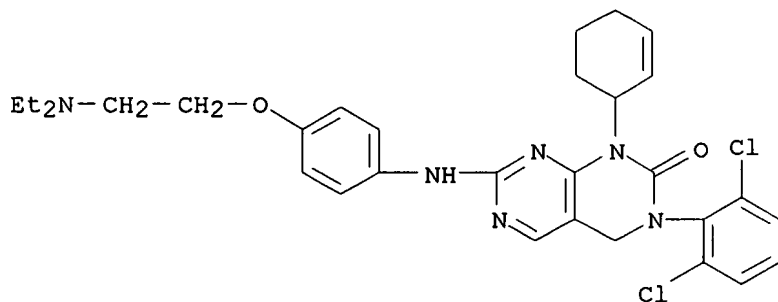
CN Pyrimido[4,5-d]pyrimidin-2(1H)-one,

7-[[4-[2-(diethylamino)ethoxy]phenyl]a

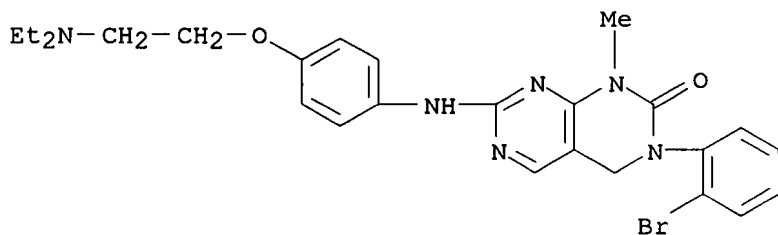
mino]-3,4-dihydro-1-methyl-3-(1-methylethyl)- (9CI) (CA INDEX NAME)



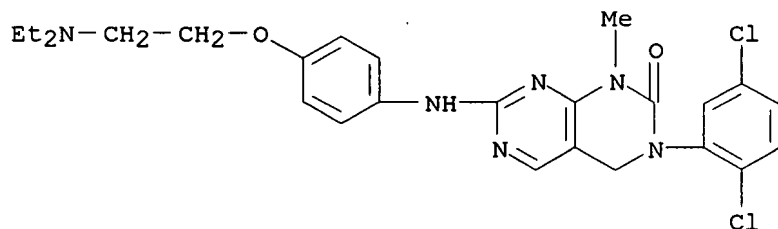
RN 266313-29-5 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-(2-cyclohexen-1-yl)-3-(2,6-dichlorophenyl)-7-[[4-[2-(diethylamino)ethoxy]phenyl]amino]-3,4-dihydro- (9CI) (CA INDEX NAME)



RN 266313-30-8 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2-bromophenyl)-7-[[4-[2-(diethylamino)ethoxy]phenyl]amino]-3,4-dihydro-1-methyl- (9CI) (CA INDEX NAME)

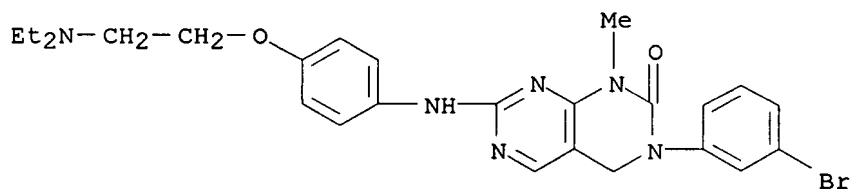


RN 266313-31-9 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,5-dichlorophenyl)-7-[[4-[2-(diethylamino)ethoxy]phenyl]amino]-3,4-dihydro-1-methyl- (9CI) (CA INDEX NAME)



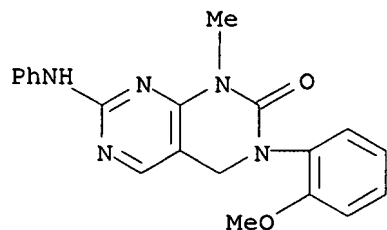
RN 266313-32-0 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(3-bromophenyl)-7-[[4-[2-(diethylamino)ethoxy]phenyl]amino]-3,4-dihydro-1-methyl- (9CI) (CA INDEX NAME)



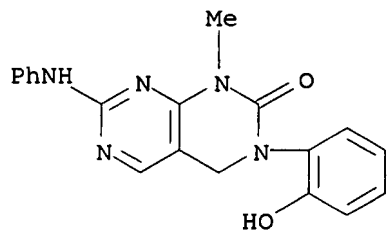
RN 266313-33-1 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3,4-dihydro-3-(2-methoxyphenyl)-1-methyl-7-(phenylamino)- (9CI) (CA INDEX NAME)

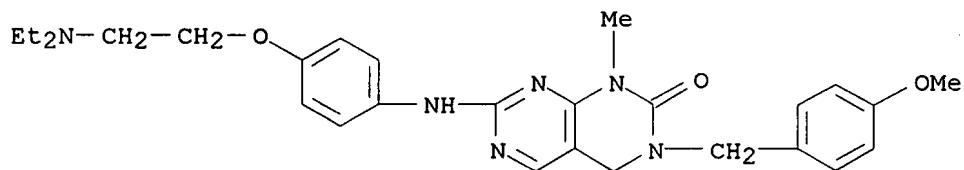


RN 266313-34-2 CAPLUS

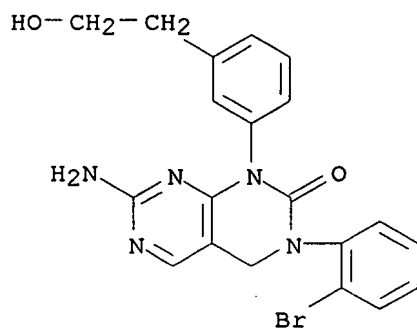
CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3,4-dihydro-3-(2-hydroxyphenyl)-1-methyl-7-(phenylamino)- (9CI) (CA INDEX NAME)



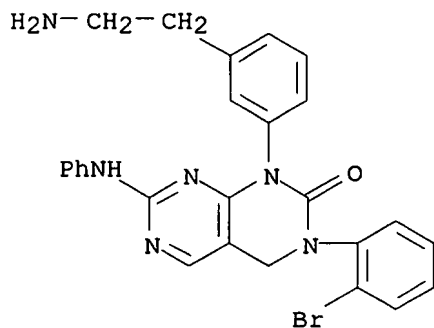
RN 266313-35-3 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one,  
 7-[[4-[2-(diethylamino)ethoxy]phenyl]a  
 mino]-3,4-dihydro-3-[(4-methoxyphenyl)methyl]-1-methyl- (9CI) (CA INDEX  
 NAME)



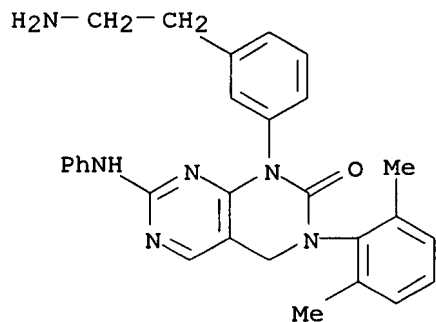
RN 266313-36-4 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one,  
 7-amino-3-(2-bromophenyl)-3,4-dihydro-  
 1-[3-(2-hydroxyethyl)phenyl]- (9CI) (CA INDEX NAME)



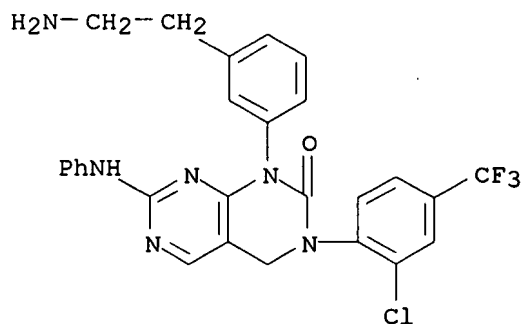
RN 266313-37-5 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-[3-(2-aminoethyl)phenyl]-3-(2-  
 bromophenyl)-3,4-dihydro-7-(phenylamino)- (9CI) (CA INDEX NAME)



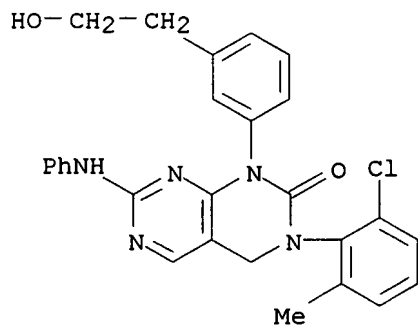
RN 266313-38-6 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-[3-(2-aminoethyl)phenyl]-3-(2,6-  
 dimethylphenyl)-3,4-dihydro-7-(phenylamino)- (9CI) (CA INDEX NAME)



RN 266313-39-7 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one,  
 1-[3-(2-aminoethyl)phenyl]-3-[2-chloro-  
 4-(trifluoromethyl)phenyl]-3,4-dihydro-7-(phenylamino)- (9CI) (CA INDEX  
 NAME)



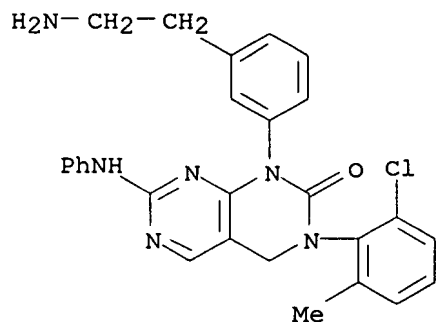
RN 266313-40-0 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2-chloro-6-methylphenyl)-3,4-  
 dihydro-1-[3-(2-aminoethyl)phenyl]-7-(phenylamino)- (9CI) (CA INDEX  
 NAME)



RN 266313-41-1 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one,  
 1-[3-(2-aminoethyl)phenyl]-3-(2-chloro-

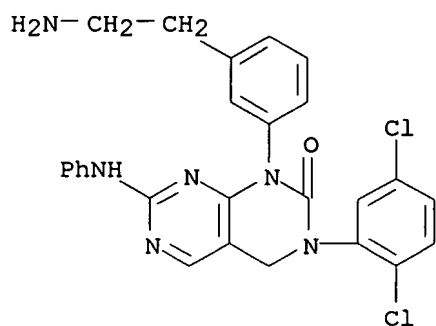


6-methylphenyl)-3,4-dihydro-7-(phenylamino)- (9CI) (CA INDEX NAME)



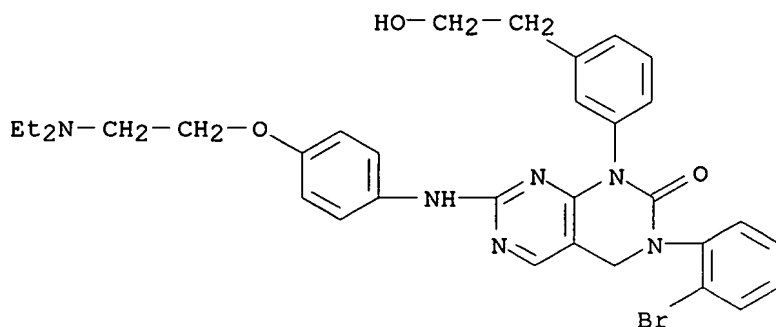
RN 266313-42-2 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-[3-(2-aminoethyl)phenyl]-3-(2,5-dichlorophenyl)-3,4-dihydro-7-(phenylamino)- (9CI) (CA INDEX NAME)



RN 266313-43-3 CAPLUS

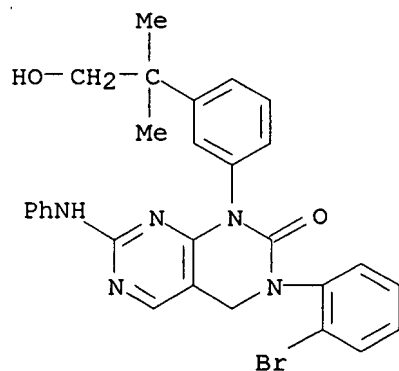
CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2-bromophenyl)-7-[[4-[2-(diethylamino)ethoxy]phenyl]amino]-3,4-dihydro-1-[3-(2-hydroxyethyl)phenyl]- (9CI) (CA INDEX NAME)



RN 266313-44-4 CAPLUS

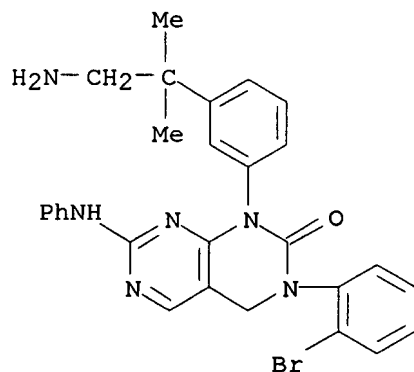
CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2-bromophenyl)-3,4-dihydro-1-[3-(2-

hydroxy-1,1-dimethylethyl)phenyl]-7-(phenylamino)- (9CI) (CA INDEX NAME)



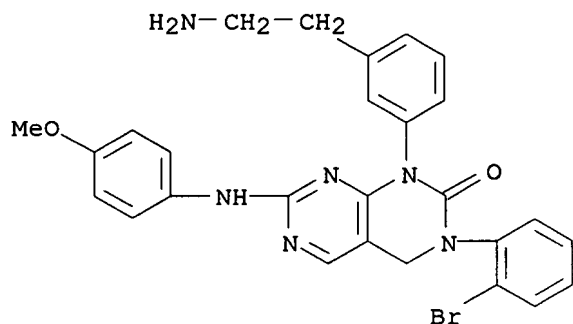
RN 266313-45-5 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-[3-(2-amino-1,1-dimethylethyl)phenyl]-3-(2-bromophenyl)-3,4-dihydro-7-(phenylamino)- (9CI)  
(CA INDEX NAME)

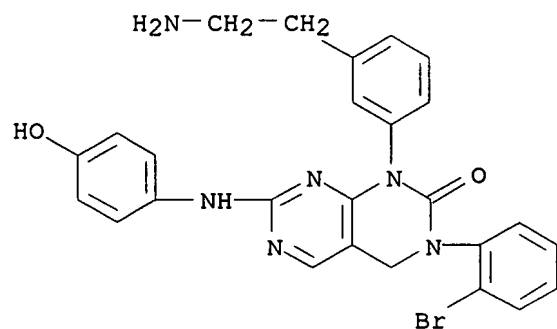


RN 266313-46-6 CAPLUS

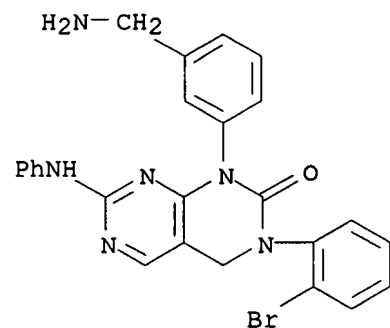
CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-[3-(2-aminoethyl)phenyl]-3-(2-bromophenyl)-3,4-dihydro-7-[(4-methoxyphenyl)amino]- (9CI) (CA INDEX NAME)



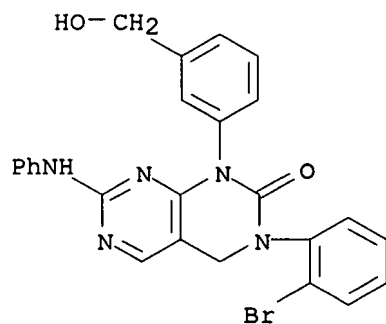
RN 266313-47-7 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-[3-(2-aminoethyl)phenyl]-3-(2-bromophenyl)-3,4-dihydro-7-[(4-hydroxyphenyl)amino]- (9CI) (CA INDEX NAME)



RN 266313-48-8 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-[3-(aminomethyl)phenyl]-3-(2-bromophenyl)-3,4-dihydro-7-(phenylamino)- (9CI) (CA INDEX NAME)

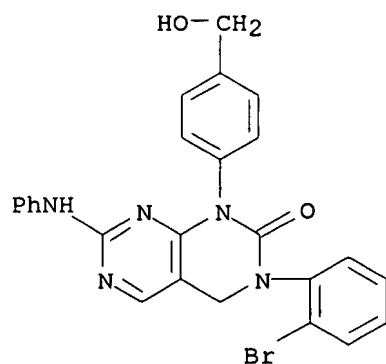


RN 266313-49-9 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2-bromophenyl)-3,4-dihydro-1-[3-(hydroxymethyl)phenyl]-7-(phenylamino)- (9CI) (CA INDEX NAME)



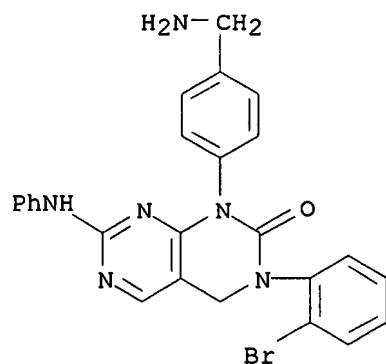
RN 266313-50-2 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2-bromophenyl)-3,4-dihydro-1-[4-(hydroxymethyl)phenyl]-7-(phenylamino)- (9CI) (CA INDEX NAME)



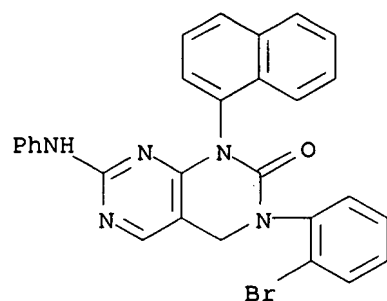
RN 266313-51-3 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-[4-(aminomethyl)phenyl]-3-(2-bromophenyl)-3,4-dihydro-7-(phenylamino)- (9CI) (CA INDEX NAME)



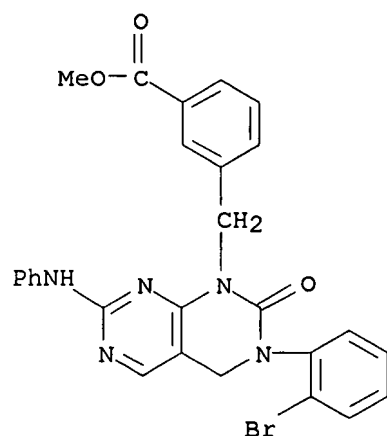
RN 266313-52-4 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2-bromophenyl)-3,4-dihydro-1-(1-naphthalenyl)-7-(phenylamino)- (9CI) (CA INDEX NAME)



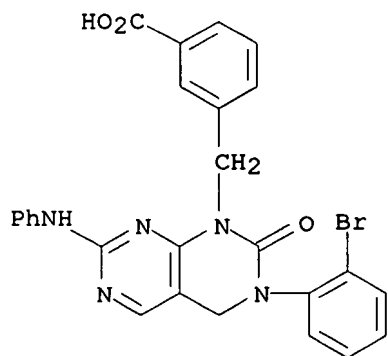
RN 266313-53-5 CAPLUS

CN Benzoic acid, 3-[[3-(2-bromophenyl)-3,4-dihydro-2-oxo-7-(phenylamino)pyrimido[4,5-d]pyrimidin-1(2H)-yl]methyl]-, methyl ester (9CI) (CA INDEX NAME)



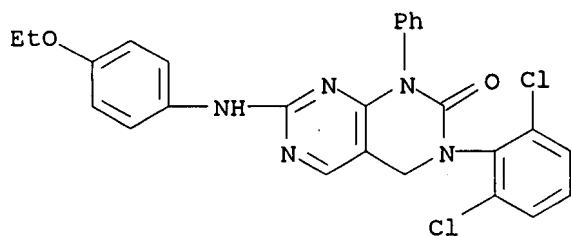
RN 266313-54-6 CAPLUS

CN Benzoic acid, 3-[[3-(2-bromophenyl)-3,4-dihydro-2-oxo-7-(phenylamino)pyrimido[4,5-d]pyrimidin-1(2H)-yl]methyl]- (9CI) (CA INDEX NAME)



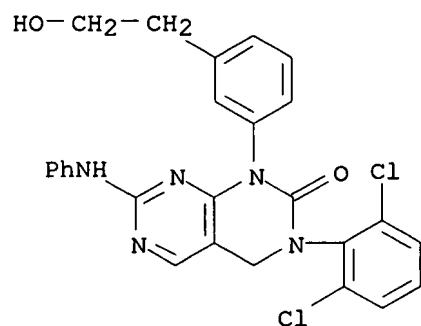
RN 266313-55-7 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,6-dichlorophenyl)-7-[(4-ethoxyphenyl)amino]-3,4-dihydro-1-phenyl- (9CI) (CA INDEX NAME)



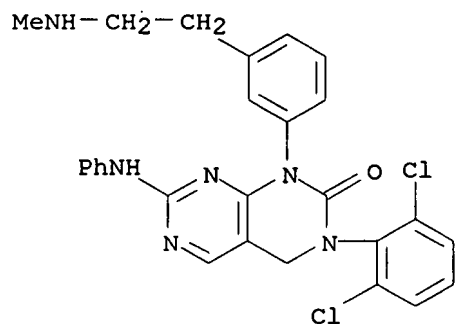
RN 266313-56-8 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,6-dichlorophenyl)-3,4-dihydro-1-[3-(2-hydroxyethyl)phenyl]-7-(phenylamino)- (9CI) (CA INDEX NAME)



RN 266313-57-9 CAPLUS

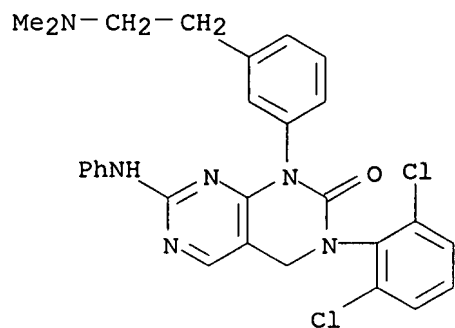
CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,6-dichlorophenyl)-3,4-dihydro-1-[3-[2-(methylamino)ethyl]phenyl]-7-(phenylamino)- (9CI) (CA INDEX NAME)



RN 266313-58-0 CAPLUS

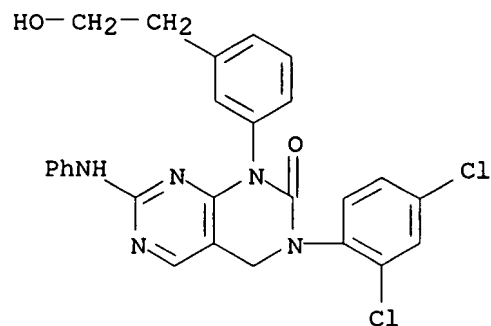
CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,6-dichlorophenyl)-1-[3-[2-(dimethylamino)ethyl]phenyl]-3,4-dihydro-7-(phenylamino)- (9CI) (CA

INDEX  
NAME)



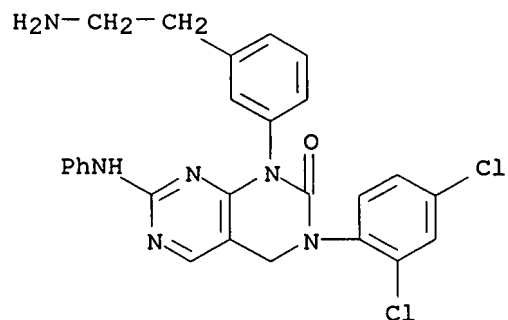
RN 266313-59-1 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,4-dichlorophenyl)-3,4-dihydro-1-[3-(2-hydroxyethyl)phenyl]-7-(phenylamino)- (9CI) (CA INDEX NAME)

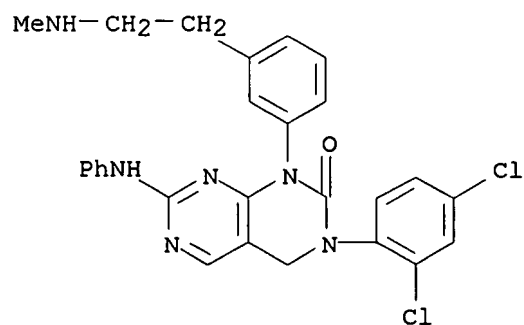


RN 266313-60-4 CAPLUS

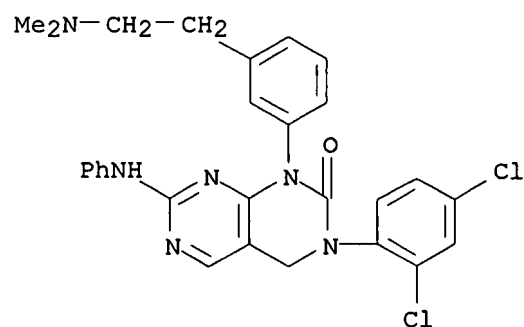
CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-[3-(2-aminoethyl)phenyl]-3-(2,4-dichlorophenyl)-3,4-dihydro-7-(phenylamino)- (9CI) (CA INDEX NAME)



RN 266313-61-5 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,4-dichlorophenyl)-3,4-dihydro-1-[3-[2-(methylamino)ethyl]phenyl]-7-(phenylamino)- (9CI) (CA INDEX NAME)

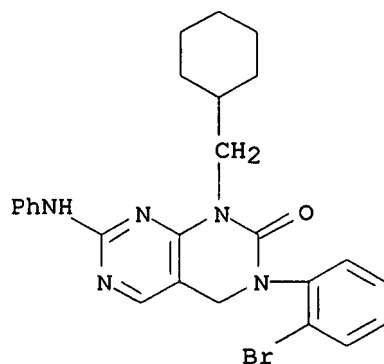


RN 266313-62-6 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,4-dichlorophenyl)-1-[3-[2-(dimethylamino)ethyl]phenyl]-3,4-dihydro-7-(phenylamino)- (9CI) (CA INDEX NAME)



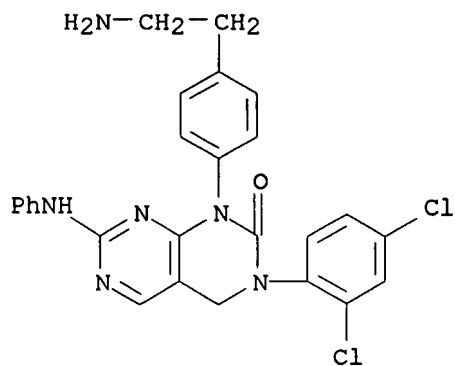
RN 266313-63-7 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2-bromophenyl)-1-(cyclohexylmethyl)-3,4-dihydro-7-(phenylamino)- (9CI) (CA INDEX NAME)





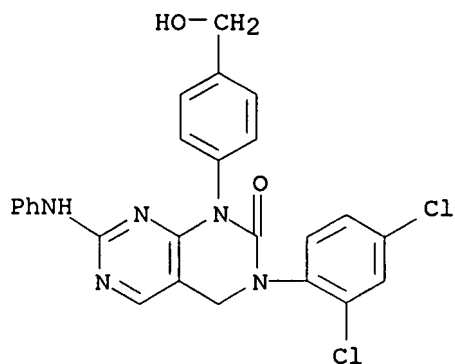
RN 266313-64-8 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-[4-(2-aminoethyl)phenyl]-3-(2,4-dichlorophenyl)-3,4-dihydro-7-(phenylamino)- (9CI) (CA INDEX NAME)

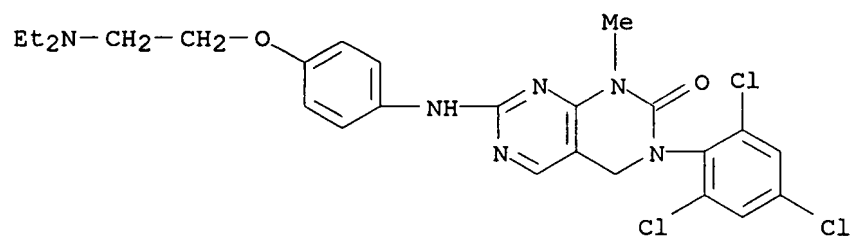


RN 266313-65-9 CAPLUS

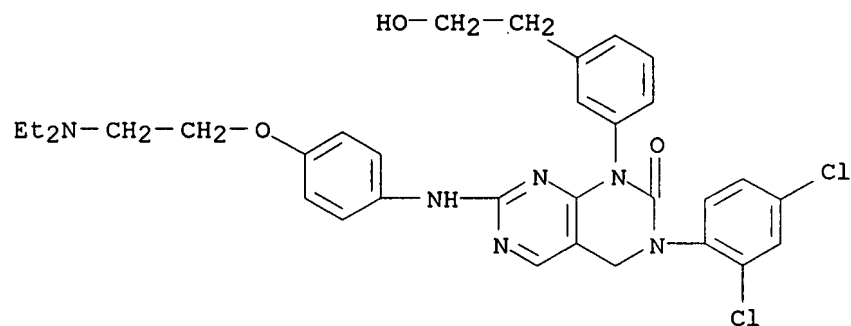
CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,4-dichlorophenyl)-3,4-dihydro-1-[4-(hydroxymethyl)phenyl]-7-(phenylamino)- (9CI) (CA INDEX NAME)



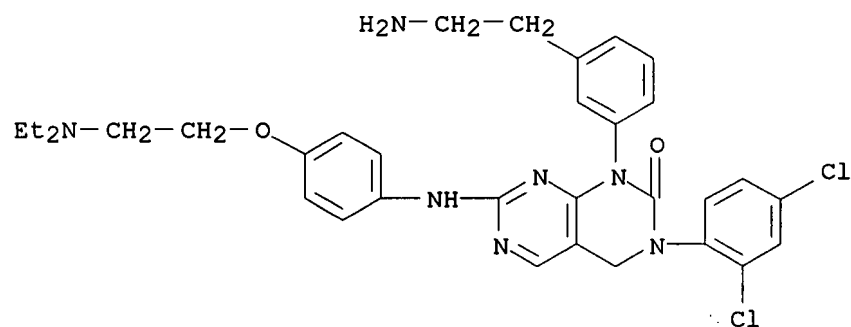
RN 266313-66-0 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one,  
 7-[[4-[2-(diethylamino)ethoxy]phenyl]a  
 mino]-3,4-dihydro-1-methyl-3-(2,4,6-trichlorophenyl)- (9CI) (CA INDEX  
 NAME)



RN 266313-67-1 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,4-dichlorophenyl)-7-[[4-[2-(diethylamino)ethoxy]phenyl]amino]-3,4-dihydro-1-[3-(2-hydroxyethyl)phenyl]- (9CI) (CA INDEX NAME)

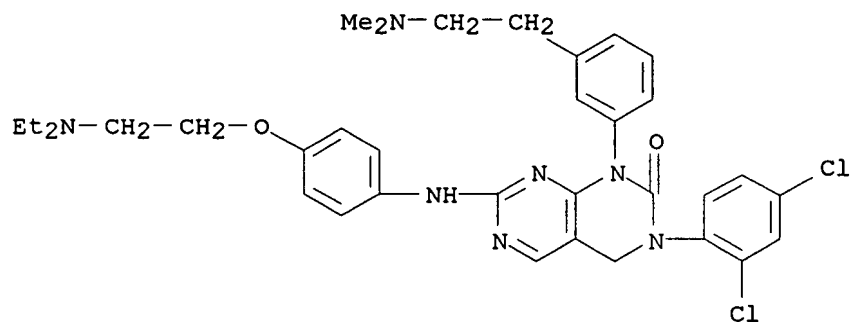


RN 266313-68-2 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-[3-(2-aminoethyl)phenyl]-3-(2,4-dichlorophenyl)-7-[[4-[2-(diethylamino)ethoxy]phenyl]amino]-3,4-dihydro- (9CI) (CA INDEX NAME)



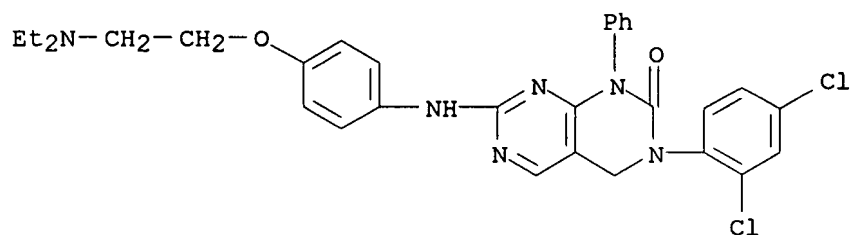
RN 266313-69-3 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,4-dichlorophenyl)-7-[[4-[2-(diethylamino)ethoxy]phenyl]amino]-1-[3-[2-(dimethylamino)ethyl]phenyl]-3,4-dihydro- (9CI) (CA INDEX NAME)



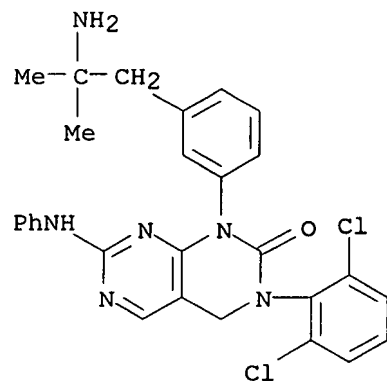
RN 266313-70-6 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,4-dichlorophenyl)-7-[[4-[2-(diethylamino)ethoxy]phenyl]amino]-3,4-dihydro-1-phenyl- (9CI) (CA INDEX NAME)



RN 266313-71-7 CAPLUS

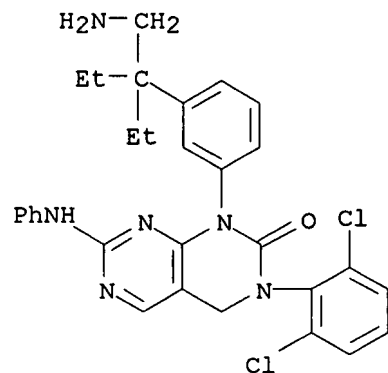
CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-[3-(2-amino-2-methylpropyl)phenyl]-3-(2,6-dichlorophenyl)-3,4-dihydro-7-(phenylamino)- (9CI) (CA INDEX NAME)



RN 266313-73-9 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-[3-[1-(aminomethyl)-1-ethylpropyl]phenyl]-3-(2,6-dichlorophenyl)-3,4-dihydro-7-(phenylamino)-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

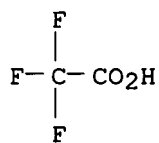
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CRN 266313-72-8  
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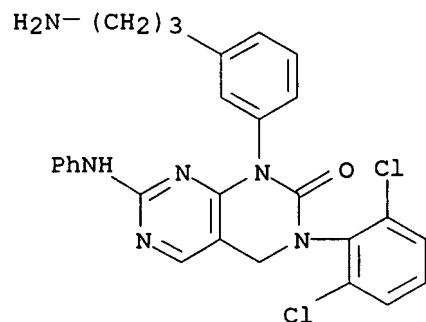


CM 2

CRN 76-05-1  
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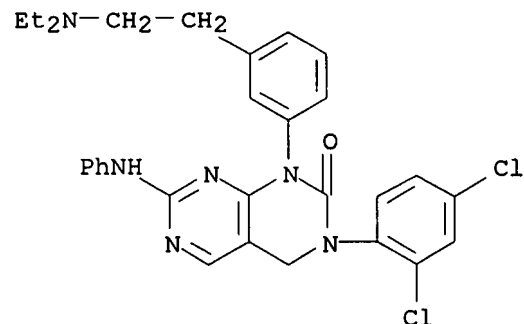


RN 266313-74-0 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-[3-(3-aminopropyl)phenyl]-3-(2,6-dichlorophenyl)-3,4-dihydro-7-(phenylamino)- (9CI) (CA INDEX NAME)



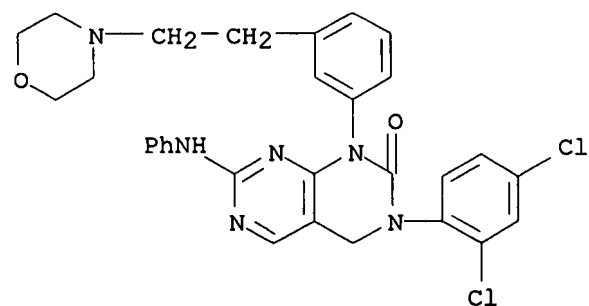
RN 266313-75-1 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,4-dichlorophenyl)-1-[3-[2-(diethylamino)ethyl]phenyl]-7-(phenylamino)- (9CI) (CA INDEX NAME)



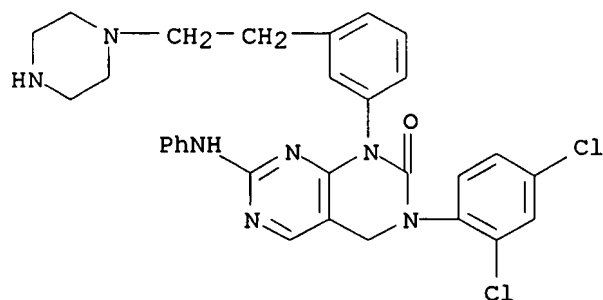
RN 266313-76-2 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,4-dichlorophenyl)-3,4-dihydro-1-[3-[2-(4-morpholinyl)ethyl]phenyl]-7-(phenylamino)- (9CI) (CA INDEX NAME)



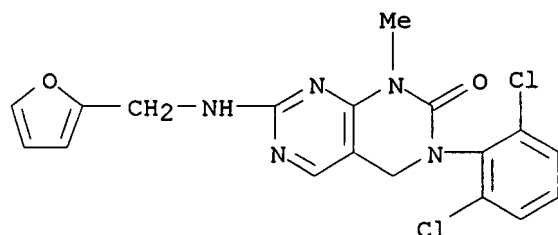
RN 266313-77-3 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,4-dichlorophenyl)-3,4-dihydro-7-(phenylamino)-1-[3-[2-(1-piperazinyl)ethyl]phenyl]- (9CI) (CA INDEX NAME)



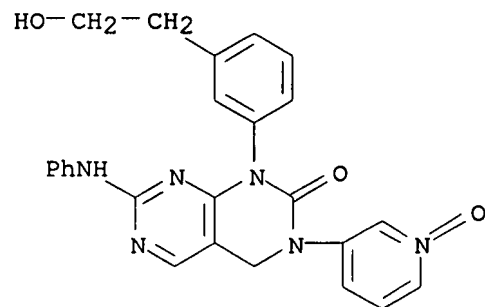
RN 266313-78-4 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,6-dichlorophenyl)-7-[(2-furanylmethyl)amino]-3,4-dihydro-1-methyl- (9CI) (CA INDEX NAME)



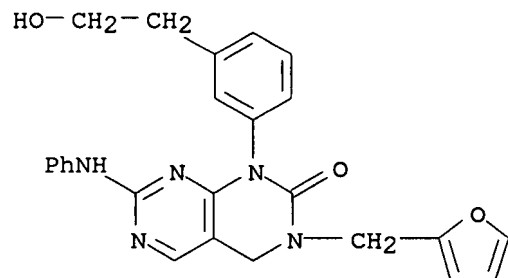
RN 266313-79-5 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3,4-dihydro-1-[3-(2-hydroxyethyl)phenyl]-3-(1-oxido-3-pyridinyl)-7-(phenylamino)- (9CI) (CA INDEX NAME)



RN 266313-80-8 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2-furanylmethyl)-3,4-dihydro-1-[3-(2-hydroxyethyl)phenyl]-7-(phenylamino)- (9CI) (CA INDEX NAME)

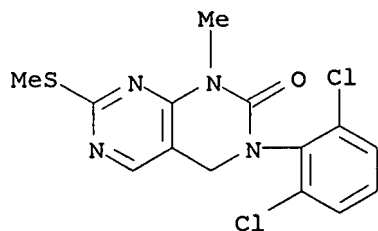


IT 266313-82-0P 266313-83-1P 266313-84-2P  
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 266315-30-4P 266315-32-6P 266315-34-8P  
 266315-40-6P 266315-42-8P 266315-45-1P  
 266315-97-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. of pyrimidopyrimidinones as T-cell tyrosine kinase inhibitors)

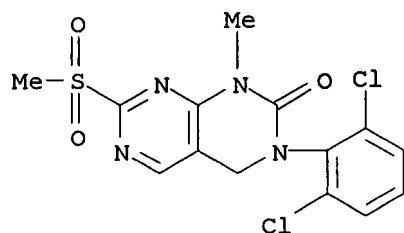
RN 266313-82-0 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,6-dichlorophenyl)-3,4-dihydro-1-methyl-7-(methylthio)- (9CI) (CA INDEX NAME)



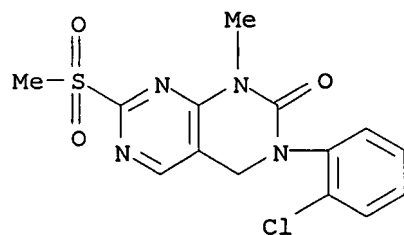
RN 266313-83-1 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,6-dichlorophenyl)-3,4-dihydro-1-methyl-7-(methylsulfonyl)- (9CI) (CA INDEX NAME)



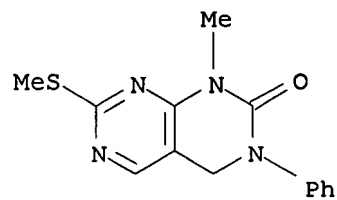
RN 266313-84-2 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2-chlorophenyl)-3,4-dihydro-1-methyl-7-(methylsulfonyl)- (9CI) (CA INDEX NAME)



RN 266313-86-4 CAPLUS

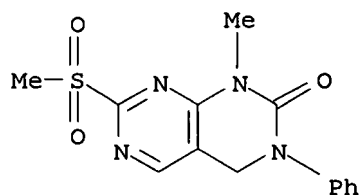
CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3,4-dihydro-1-methyl-7-(methylthio)-3-phenyl- (9CI) (CA INDEX NAME)





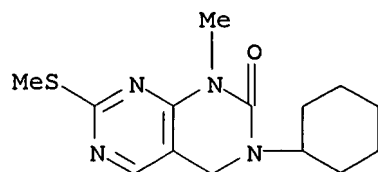
RN 266313-87-5 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3,4-dihydro-1-methyl-7-(methylsulfonyl)-3-phenyl- (9CI) (CA INDEX NAME)



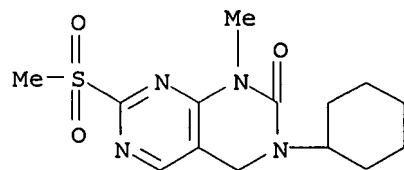
RN 266313-89-7 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-cyclohexyl-3,4-dihydro-1-methyl-7-(methylthio)- (9CI) (CA INDEX NAME)



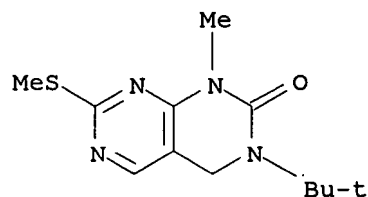
RN 266313-90-0 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-cyclohexyl-3,4-dihydro-1-methyl-7-(methylsulfonyl)- (9CI) (CA INDEX NAME)



RN 266313-92-2 CAPLUS

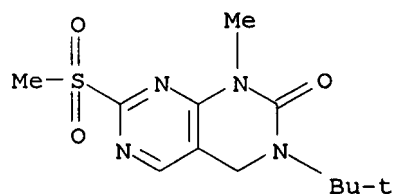
CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(1,1-dimethylethyl)-3,4-dihydro-1-methyl-7-(methylthio)- (9CI) (CA INDEX NAME)



RN 266313-93-3 CAPLUS

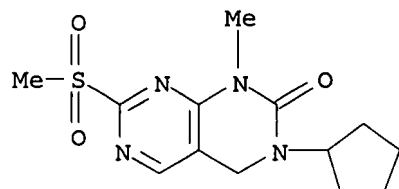
CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(1,1-dimethylethyl)-3,4-dihydro-1-

methyl-7-(methylsulfonyl)- (9CI) (CA INDEX NAME)



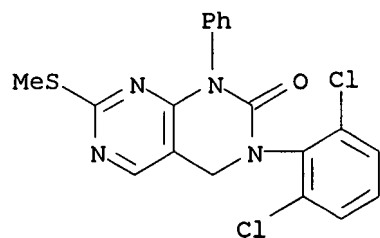
RN 266313-94-4 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-cyclopentyl-3,4-dihydro-1-methyl-7-(methylsulfonyl)- (9CI) (CA INDEX NAME)



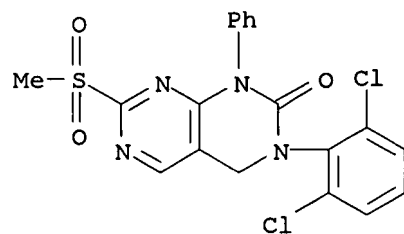
RN 266313-97-7 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,6-dichlorophenyl)-3,4-dihydro-7-(methylthio)-1-phenyl- (9CI) (CA INDEX NAME)



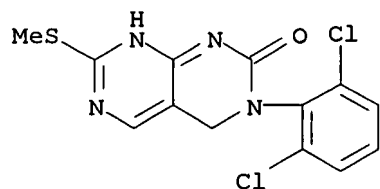
RN 266313-98-8 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,6-dichlorophenyl)-3,4-dihydro-7-(methylsulfonyl)-1-phenyl- (9CI) (CA INDEX NAME)



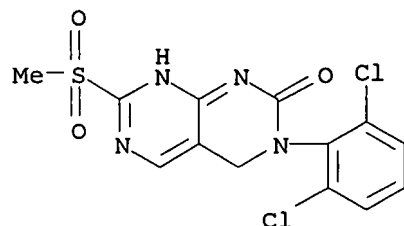
RN 266314-00-5 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,6-dichlorophenyl)-3,4-dihydro-7-(methylthio)- (9CI) (CA INDEX NAME)



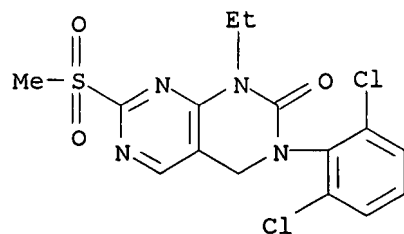
RN 266314-01-6 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,6-dichlorophenyl)-3,4-dihydro-7-(methylsulfonyl)- (9CI) (CA INDEX NAME)



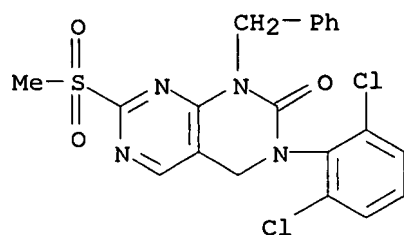
RN 266314-02-7 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,6-dichlorophenyl)-1-ethyl-3,4-dihydro-7-(methylsulfonyl)- (9CI) (CA INDEX NAME)



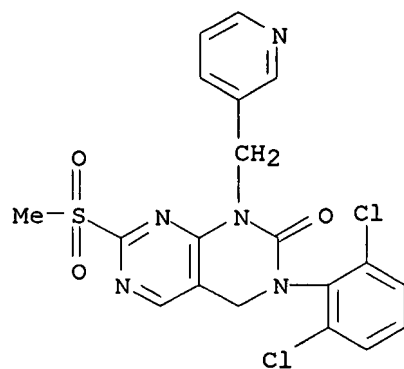
RN 266314-03-8 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,6-dichlorophenyl)-3,4-dihydro-7-(methylsulfonyl)-1-(phenylmethyl)- (9CI) (CA INDEX NAME)



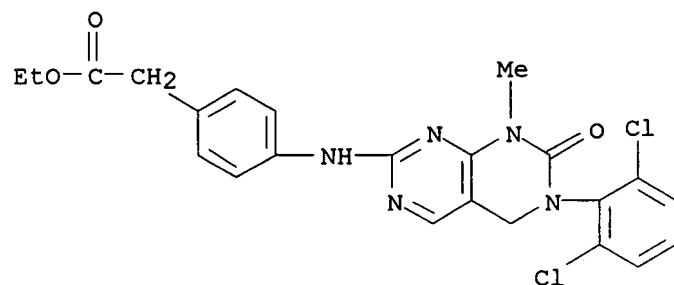
RN 266314-04-9 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,6-dichlorophenyl)-3,4-dihydro-7-(methylsulfonyl)-1-(3-pyridinylmethyl)- (9CI) (CA INDEX NAME)



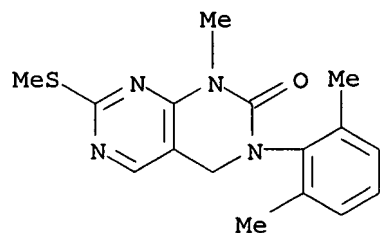
RN 266314-05-0 CAPLUS

CN Benzeneacetic acid, 4-[[6-(2,6-dichlorophenyl)-5,6,7,8-tetrahydro-8-methyl-7-oxopyrimido[4,5-d]pyrimidin-2-yl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



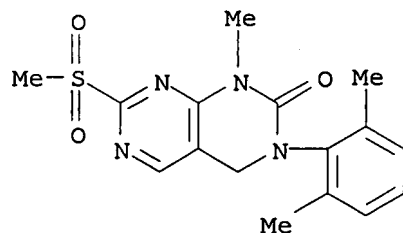
RN 266314-08-3 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,6-dimethylphenyl)-3,4-dihydro-1-methyl-7-(methylthio)- (9CI) (CA INDEX NAME)



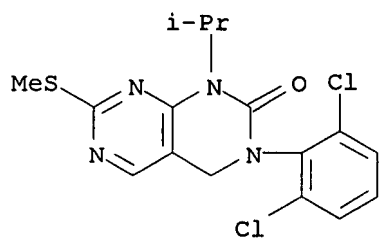
RN 266314-09-4 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,6-dimethylphenyl)-3,4-dihydro-1-methyl-7-(methylsulfonyl)- (9CI) (CA INDEX NAME)



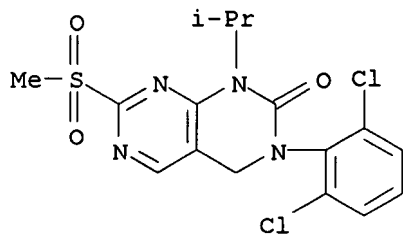
RN 266314-10-7 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,6-dichlorophenyl)-3,4-dihydro-1-(1-methylethyl)-7-(methylthio)- (9CI) (CA INDEX NAME)

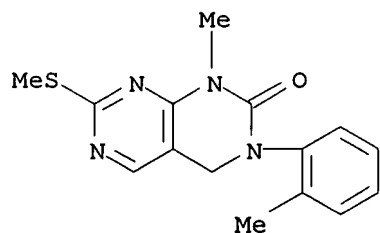


RN 266314-11-8 CAPLUS

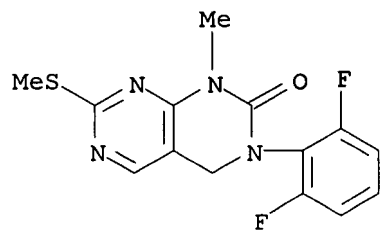
CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,6-dichlorophenyl)-3,4-dihydro-1-(1-methylethyl)-7-(methylsulfonyl)- (9CI) (CA INDEX NAME)



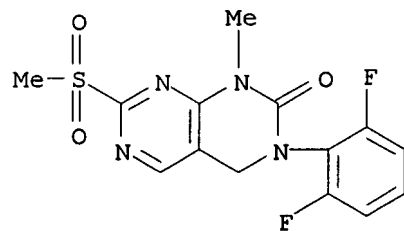
RN 266314-13-0 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3,4-dihydro-1-methyl-3-(2-methylphenyl)-7-(methylthio)- (9CI) (CA INDEX NAME)



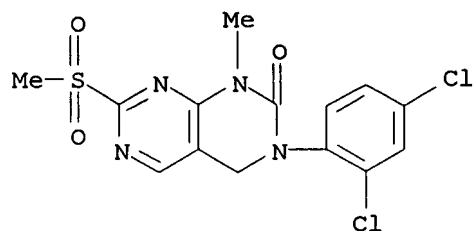
RN 266314-15-2 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,6-difluorophenyl)-3,4-dihydro-1-methyl-7-(methylthio)- (9CI) (CA INDEX NAME)



RN 266314-16-3 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,6-difluorophenyl)-3,4-dihydro-1-methyl-7-(methylsulfonyl)- (9CI) (CA INDEX NAME)

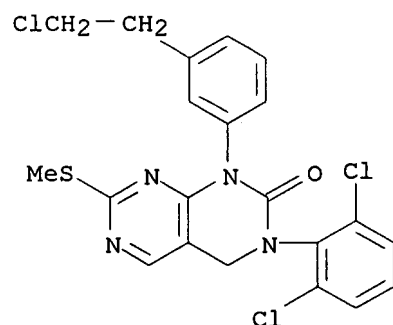


RN 266314-17-4 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,4-dichlorophenyl)-3,4-dihydro-1-methyl-7-(methylsulfonyl)- (9CI) (CA INDEX NAME)



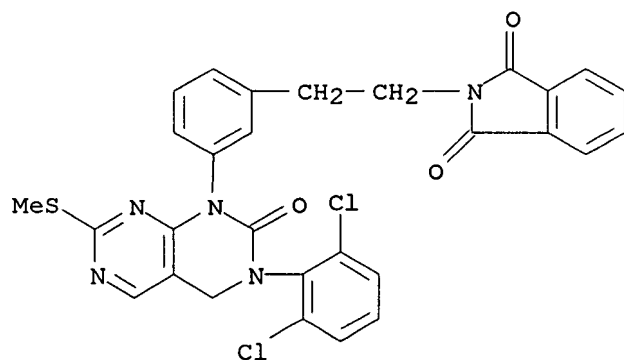
RN 266314-22-1 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-[3-(2-chloroethyl)phenyl]-3-(2,6-dichlorophenyl)-3,4-dihydro-7-(methylthio)- (9CI) (CA INDEX NAME)



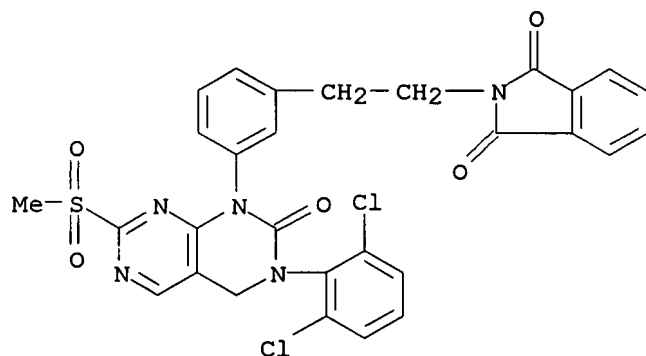
RN 266314-23-2 CAPLUS

CN 1H-Isoindole-1,3(2H)-dione,  
2-[2-[3-[3-(2,6-dichlorophenyl)-3,4-dihydro-7-(methylthio)-2-oxopyrimido[4,5-d]pyrimidin-1(2H)-yl]phenyl]ethyl]- (9CI)  
(CA INDEX NAME)



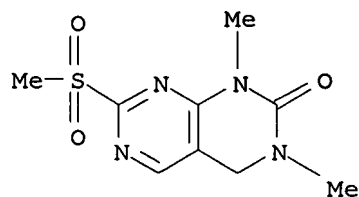
RN 266314-24-3 CAPLUS

CN 1H-Isoindole-1,3(2H)-dione,  
2-[2-[3-[3-(2,6-dichlorophenyl)-3,4-dihydro-7-(methylsulfonyl)-2-oxopyrimido[4,5-d]pyrimidin-1(2H)-yl]phenyl]ethyl]- (9CI) (CA INDEX NAME)



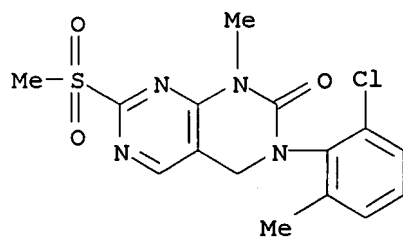
RN 266314-25-4 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3,4-dihydro-1,3-dimethyl-7-(methylsulfonyl)- (9CI) (CA INDEX NAME)



RN 266314-26-5 CAPLUS

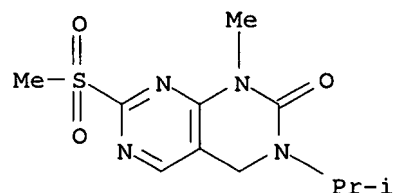
CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2-chloro-6-methylphenyl)-3,4-dihydro-1-methyl-7-(methylsulfonyl)- (9CI) (CA INDEX NAME)



RN 266314-27-6 CAPLUS

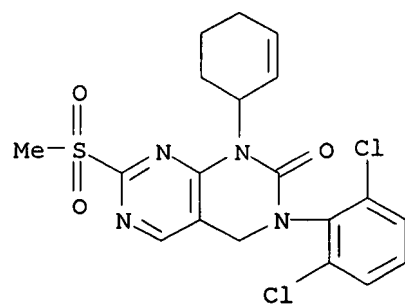
CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3,4-dihydro-1-methyl-3-(1-methylethyl)-7-(methylsulfonyl)- (9CI) (CA INDEX NAME)





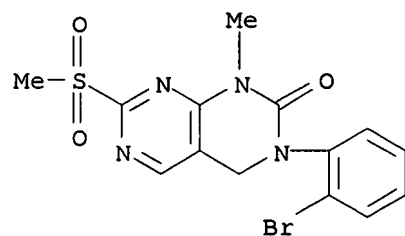
RN 266314-28-7 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-(2-cyclohexen-1-yl)-3-(2,6-dichlorophenyl)-3,4-dihydro-7-(methylsulfonyl)- (9CI) (CA INDEX NAME)



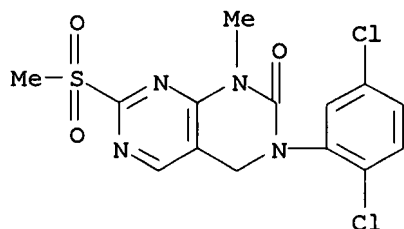
RN 266314-29-8 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2-bromophenyl)-3,4-dihydro-1-methyl-7-(methylsulfonyl)- (9CI) (CA INDEX NAME)

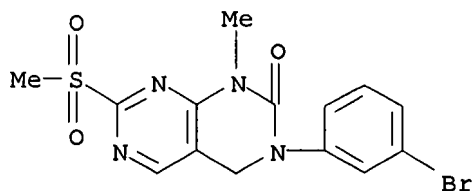


RN 266314-30-1 CAPLUS

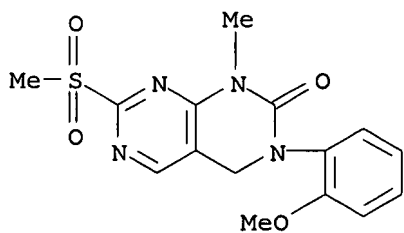
CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,5-dichlorophenyl)-3,4-dihydro-1-methyl-7-(methylsulfonyl)- (9CI) (CA INDEX NAME)



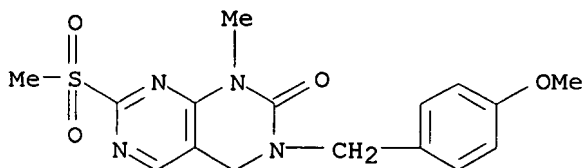
RN 266314-31-2 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one,  
 3-(3-bromophenyl)-3,4-dihydro-1-methyl-  
 7-(methylsulfonyl)- (9CI) (CA INDEX NAME)



RN 266314-32-3 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3,4-dihydro-3-(2-methoxyphenyl)-1-  
 methyl-7-(methylsulfonyl)- (9CI) (CA INDEX NAME)

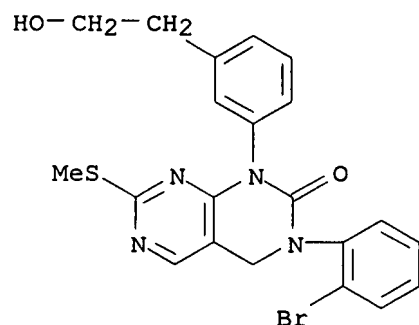


RN 266314-33-4 CAPLUS  
 CN Pyrimido[4,5-b]pyrimidin-2(1H)-one, 3,4-dihydro-3-[(4-  
 methoxyphenyl)methyl]-1-methyl-7-(methylsulfonyl)- (9CI) (CA INDEX NAME)



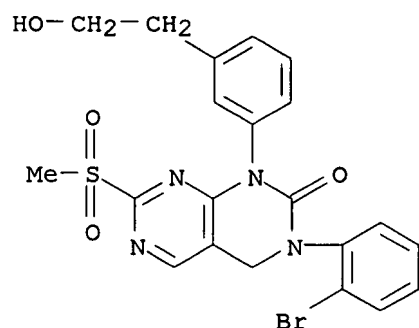
RN 266314-36-7 CAPLUS  
 CN Pyrimido[4,5-b]pyrimidin-2(1H)-one,  
 3-(2-bromophenyl)-3,4-dihydro-1-[3-(2-

hydroxyethyl)phenyl]-7-(methylthio)- (9CI) (CA INDEX NAME)



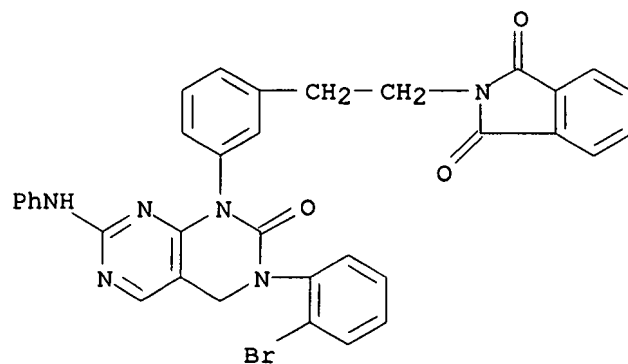
RN 266314-37-8 CAPLUS

CN Pyrimido[4,5-b]pyrimidin-2(1H)-one,  
3-(2-bromophenyl)-3,4-dihydro-1-[3-(2-  
hydroxyethyl)phenyl]-7-(methylsulfonyl)- (9CI) (CA INDEX NAME)



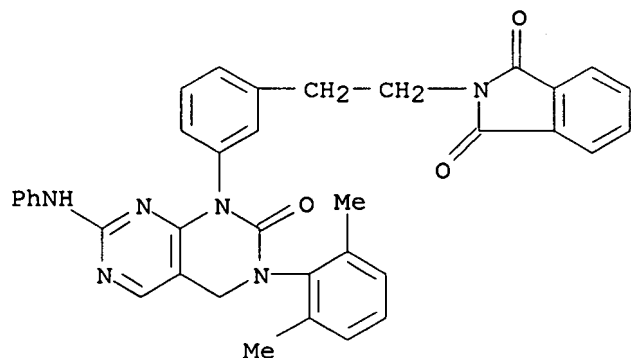
RN 266314-38-9 CAPLUS

CN 1H-Isoindole-1,3(2H)-dione,  
2-[2-[3-[3-(2-bromophenyl)-3,4-dihydro-2-oxo-7-  
(phenylamino)pyrimido[4,5-d]pyrimidin-1(2H)-yl]phenyl]ethyl]- (9CI) (CA  
INDEX NAME)



RN 266314-39-0 CAPLUS

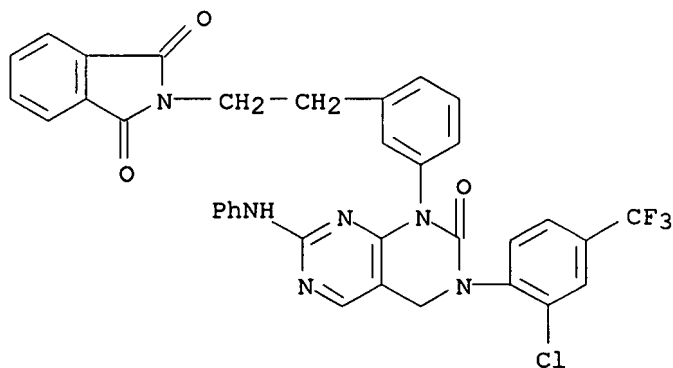
CN 1H-Isoindole-1,3(2H)-dione,

2-[2-[3-[3-(2,6-dimethylphenyl)-3,4-dihydro-2-oxo-7-(phenylamino)pyrimido[4,5-d]pyrimidin-1(2H)-yl]phenyl]ethyl]- (9CI)  
(CA INDEX NAME)

RN 266314-40-3 CAPLUS

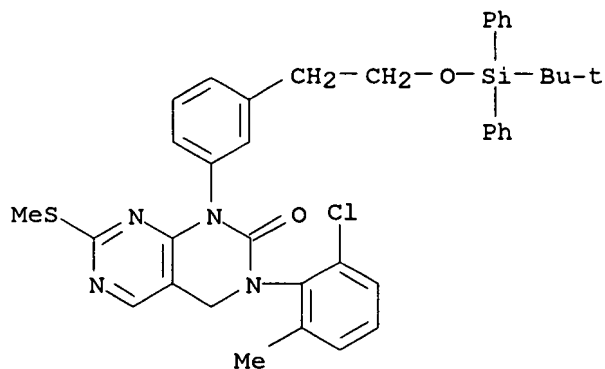
CN 1H-Isoindole-1,3(2H)-dione, 2-[2-[3-[3-[2-chloro-4-

(trifluoromethyl)phenyl]-3,4-dihydro-2-oxo-7-(phenylamino)pyrimido[4,5-d]pyrimidin-1(2H)-yl]phenyl]ethyl]- (9CI) (CA INDEX NAME)



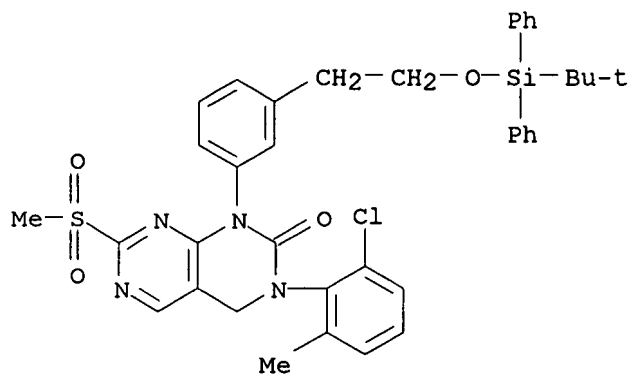
RN 266314-43-6 CAPLUS

CN Pyrimido[4,5-b]pyrimidin-2(1H)-one, 3-(2-chloro-6-methylphenyl)-1-[3-[2-[[[1,1-dimethylethyl]diphenylsilyl]oxy]ethyl]phenyl]-3,4-dihydro-7-(methylthio)- (9CI) (CA INDEX NAME)



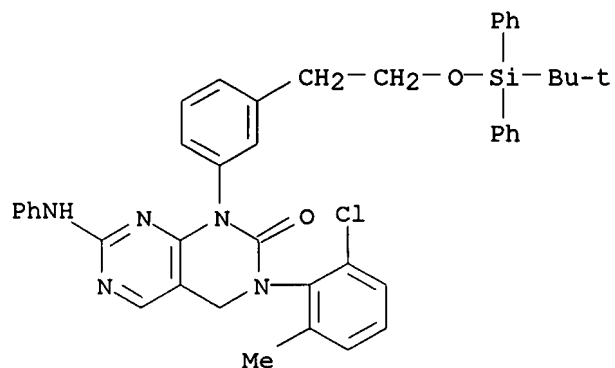
RN 266314-44-7 CAPLUS

CN Pyrimido[4,5-b]pyrimidin-2(1H)-one, 3-(2-chloro-6-methylphenyl)-1-[3-[2-[[[1,1-dimethylethyl]diphenylsilyl]oxy]ethyl]phenyl]-3,4-dihydro-7-(methylsulfonyl)- (9CI) (CA INDEX NAME)



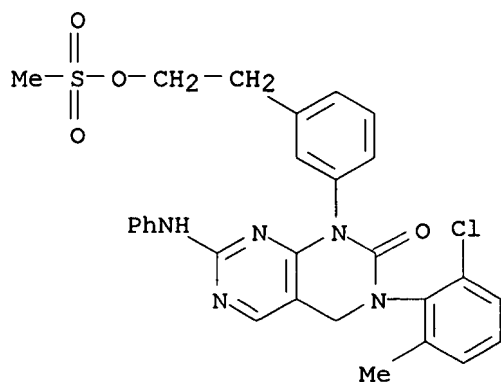
RN 266314-45-8 CAPLUS

CN Pyrimido[4,5-b]pyrimidin-2(1H)-one, 3-(2-chloro-6-methylphenyl)-1-[3-[2-[[[1,1-dimethylethyl]diphenylsilyl]oxy]ethyl]phenyl]-3,4-dihydro-7-(phenylamino)- (9CI) (CA INDEX NAME)



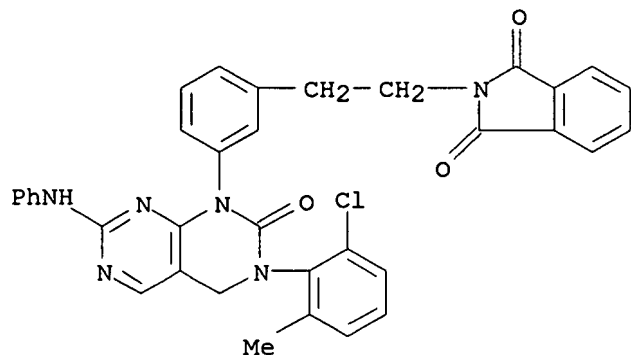
RN 266314-46-9 CAPLUS

CN Pyrimido[4,5-b]pyrimidin-2(1H)-one, 3-(2-chloro-6-methylphenyl)-3,4-dihydro-1-[3-[2-[(methyldisulfonyl)oxy]ethyl]phenyl]-7-(phenylamino)- (9CI)  
(CA INDEX NAME)



RN 266314-47-0 CAPLUS

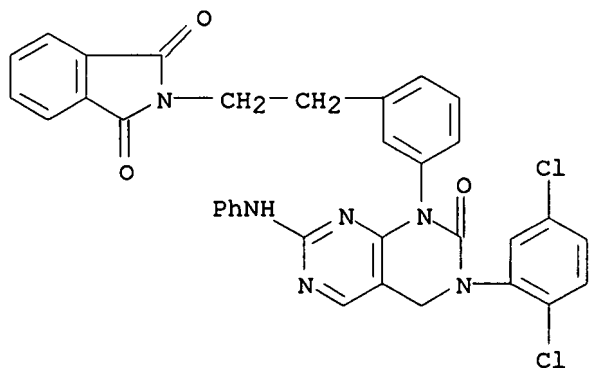
CN 1H-Isoindole-1,3(2H)-dione, 2-[2-[3-[3-(2-chloro-6-methylphenyl)-3,4-dihydro-2-oxo-7-(phenylamino)pyrimido[4,5-d]pyrimidin-1(2H)-yl]phenyl]ethyl]- (9CI) (CA INDEX NAME)



RN 266314-48-1 CAPLUS

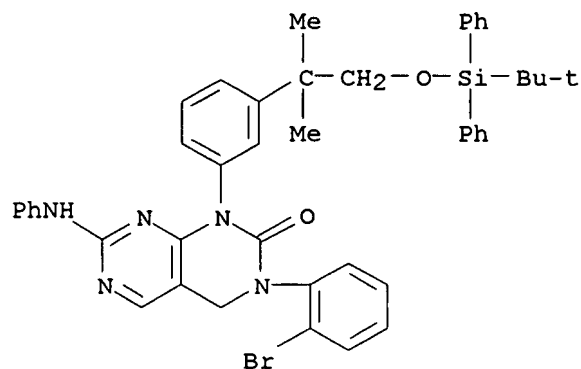
CN 1H-Isoindole-1,3(2H)-dione,

2-[2-[3-[3-(2,5-dichlorophenyl)-3,4-dihydro-2-oxo-7-(phenylamino)pyrimido[4,5-d]pyrimidin-1(2H)-yl]phenyl]ethyl]- (9CI)  
(CA INDEX NAME)



RN 266314-49-2 CAPLUS

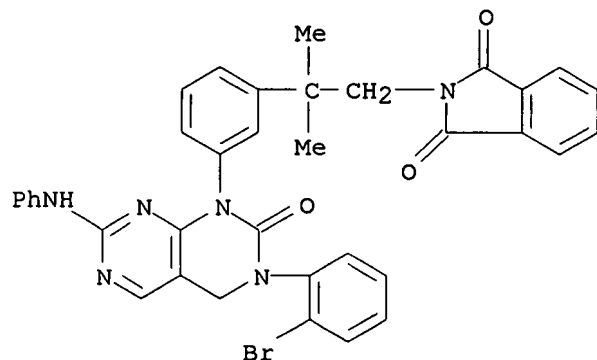
CN Pyrimido[4,5-b]pyrimidin-2(1H)-one, 3-(2-bromophenyl)-1-[3-[2-[[ (1,1-dimethylethyl)diphenylsilyl]oxy]-1,1-dimethylethyl]phenyl]-3,4-dihydro-7-(phenylamino)- (9CI) (CA INDEX NAME)



RN 266314-51-6 CAPLUS

CN 1H-Isoindole-1,3(2H)-dione,

2-[2-[3-[3-(2-bromophenyl)-3,4-dihydro-2-oxo-7-(phenylamino)pyrimido[4,5-d]pyrimidin-1(2H)-yl]phenyl]-2-methylpropyl]-  
(9CI) (CA INDEX NAME)

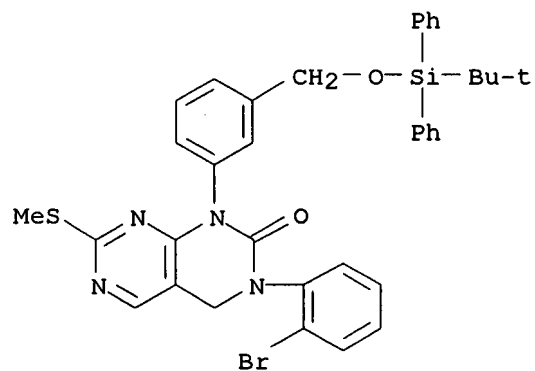


RN 266314-57-2 CAPLUS

CN Pyrimido[4,5-b]pyrimidin-2(1H)-one, 3-(2-bromophenyl)-1-[3-[[[(1,1-

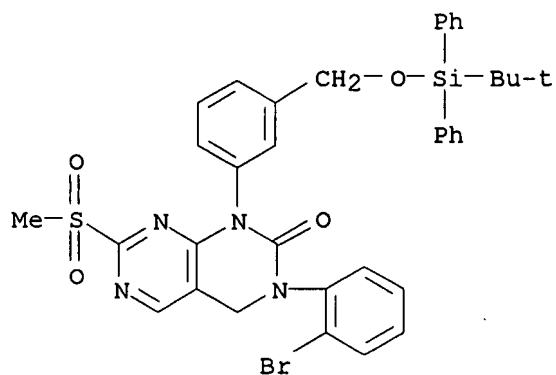
dimethylethyl)diphenylsilyl]oxy]methyl]phenyl]-3,4-dihydro-7-(methylthio)-  
(9CI) (CA INDEX NAME)





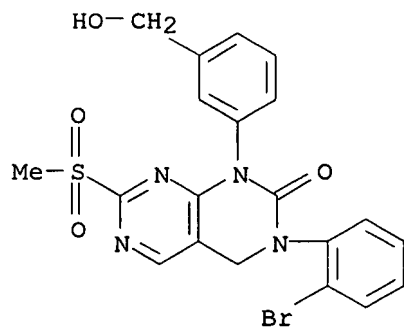
RN 266314-58-3 CAPLUS

CN Pyrimido[4,5-b]pyrimidin-2(1H)-one, 3-(2-bromophenyl)-1-[3-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]phenyl]-3,4-dihydro-7-(methylsulfonyl)- (9CI) (CA INDEX NAME)



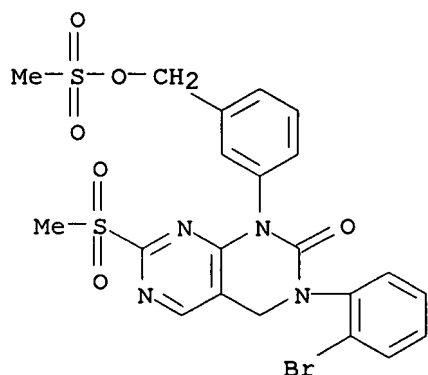
RN 266314-59-4 CAPLUS

CN Pyrimido[4,5-b]pyrimidin-2(1H)-one, 3-(2-bromophenyl)-3,4-dihydro-1-[3-(hydroxymethyl)phenyl]-7-(methylsulfonyl)- (9CI) (CA INDEX NAME)



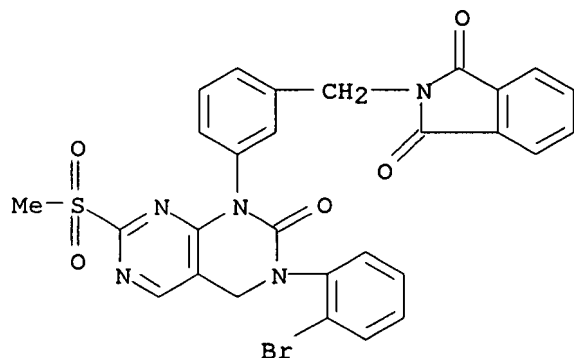
RN 266314-60-7 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2-bromophenyl)-3,4-dihydro-7-(methylsulfonyl)-1-[3-[(methylsulfonyl)oxy)methyl]phenyl]- (9CI) (CA INDEX NAME)



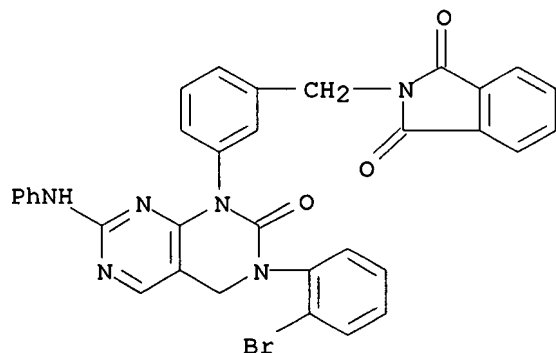
RN 266314-61-8 CAPLUS

CN 1H-Isoindole-1,3(2H)-dione, 2-[[3-[3-(2-bromophenyl)-3,4-dihydro-7-(methylsulfonyl)-2-oxopyrimido[4,5-d]pyrimidin-1(2H)-yl]phenyl]methyl]- (9CI) (CA INDEX NAME)



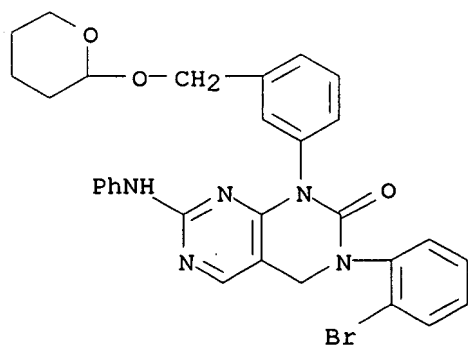
RN 266314-62-9 CAPLUS

CN 1H-Isoindole-1,3(2H)-dione, 2-[[3-[3-(2-bromophenyl)-3,4-dihydro-2-oxo-7-(phenylamino)pyrimido[4,5-d]pyrimidin-1(2H)-yl]phenyl]methyl]- (9CI) (CA INDEX NAME)



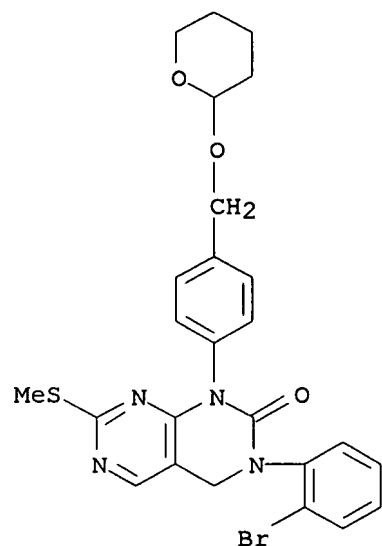
RN 266314-63-0 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2-bromophenyl)-3,4-dihydro-7-(phenylamino)-1-[3-[[1-(2-oxo-1H-indol-3-ylmethyl)oxy]methyl]phenyl]- (9CI)  
(CA INDEX NAME)



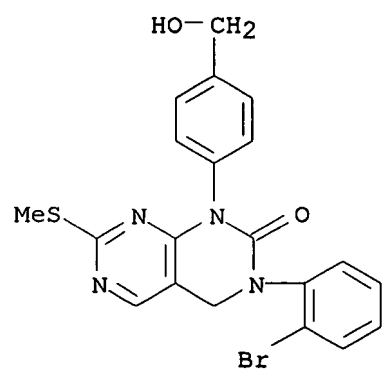
RN 266314-68-5 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2-bromophenyl)-3,4-dihydro-7-(methylthio)-1-[4-[[1-(tetrahydro-2H-pyran-2-yl)oxy]methyl]phenyl]- (9CI)  
(CA INDEX NAME)



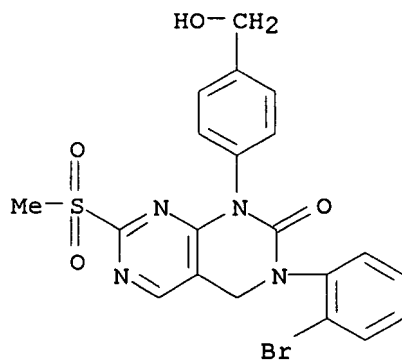
RN 266314-69-6 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2-bromophenyl)-3,4-dihydro-1-[4-(hydroxymethyl)phenyl]-7-(methylthio)- (9CI) (CA INDEX NAME)



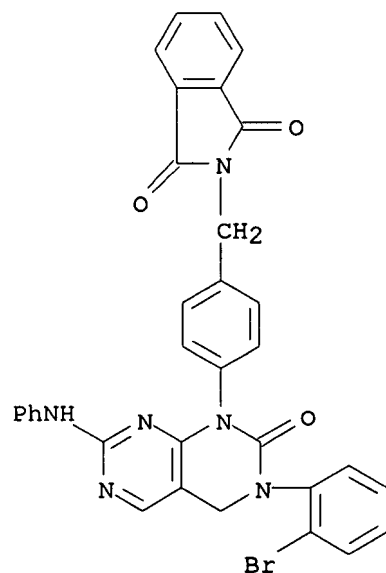
RN 266314-70-9 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2-bromophenyl)-3,4-dihydro-1-[4-(hydroxymethyl)phenyl]-7-(methylsulfonyl)- (9CI) (CA INDEX NAME)



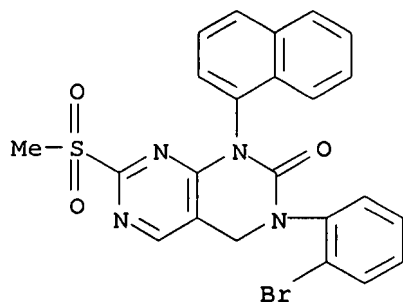
RN 266314-71-0 CAPLUS

CN 1H-Isoindole-1,3(2H)-dione, 2-[[4-[3-(2-bromophenyl)-3,4-dihydro-2-oxo-7-(phenylamino)pyrimido[4,5-d]pyrimidin-1(2H)-yl]phenyl]methyl]- (9CI) (CA INDEX NAME)



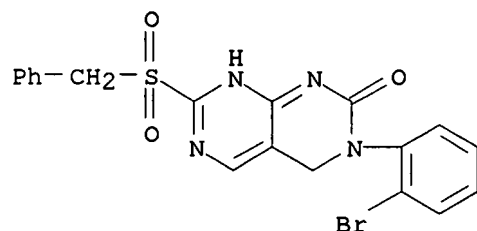
RN 266314-72-1 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2-bromophenyl)-3,4-dihydro-7-(methylsulfonyl)-1-(1-naphthalenyl)- (9CI) (CA INDEX NAME)



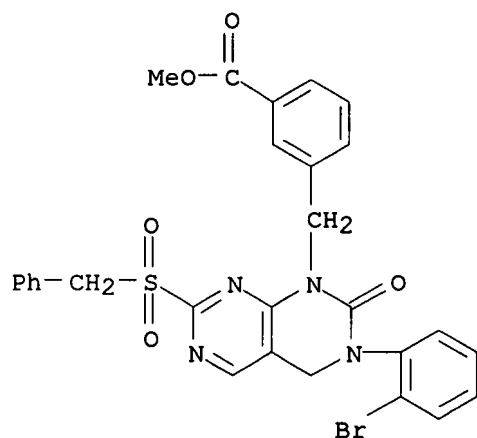
RN 266314-73-2 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2-bromophenyl)-3,4-dihydro-7-[(phenylmethyl)sulfonyl]- (9CI) (CA INDEX NAME)



RN 266314-74-3 CAPLUS

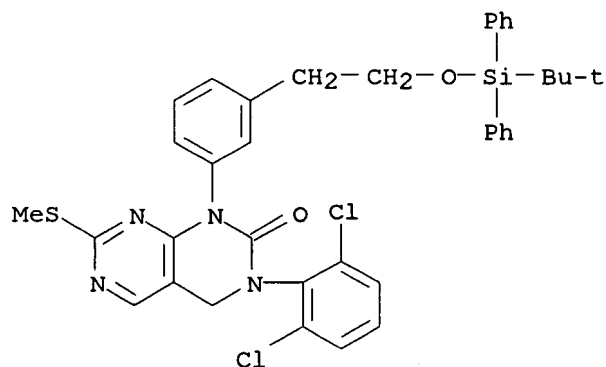
CN Benzoic acid, 3-[[3-(2-bromophenyl)-3,4-dihydro-2-oxo-7-[(phenylmethyl)sulfonyl]pyrimido[4,5-d]pyrimidin-1(2H)-yl]methyl]-, methyl ester (9CI) (CA INDEX NAME)



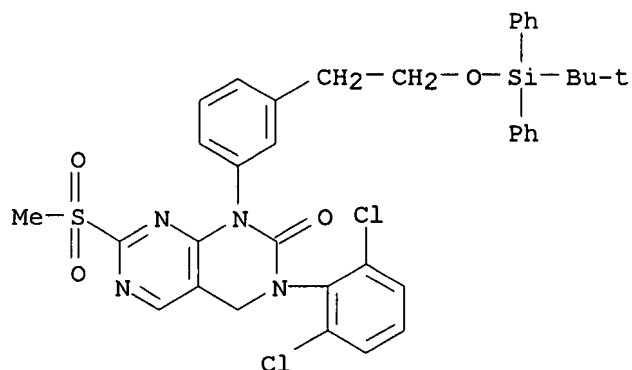
RN 266314-76-5 CAPLUS

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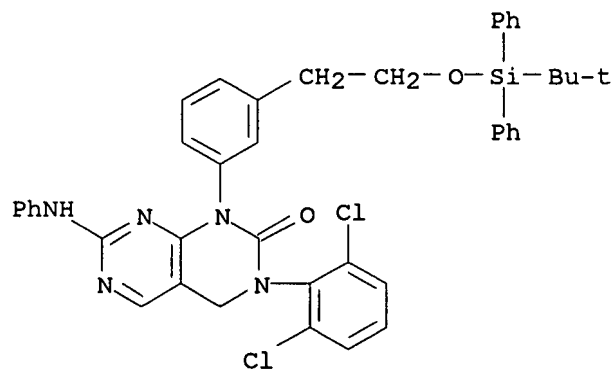
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(9CI) (CA INDEX NAME)



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CN Pyrimido[4,5-d]pyrimidin-2(1H)-one,  
3-(2,6-dichlorophenyl)-1-[3-[2-[(1,1-  
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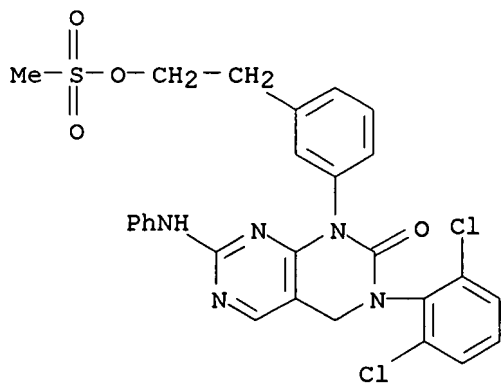
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RN 266314-79-8 CAPLUS

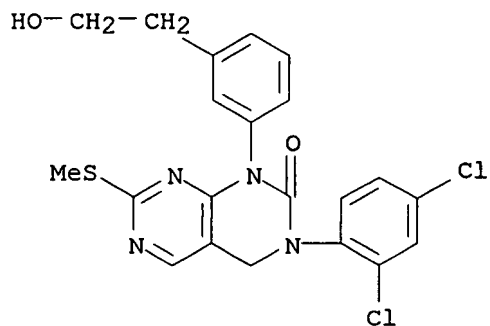
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INDEX  
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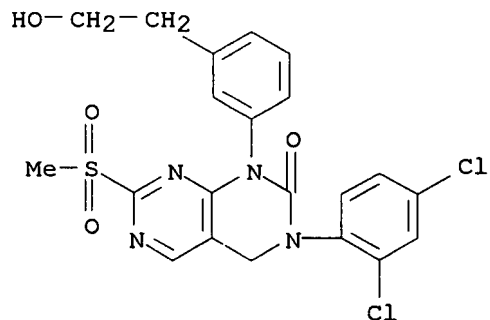
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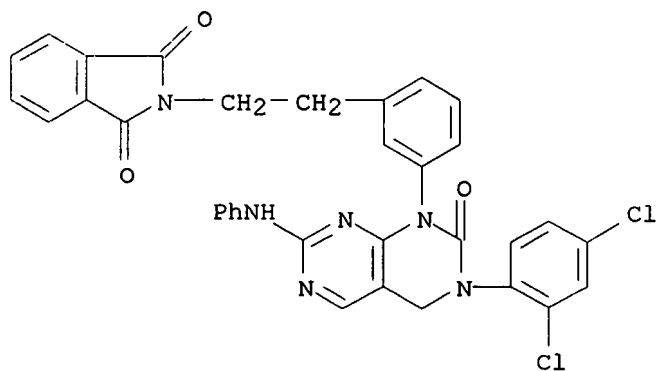
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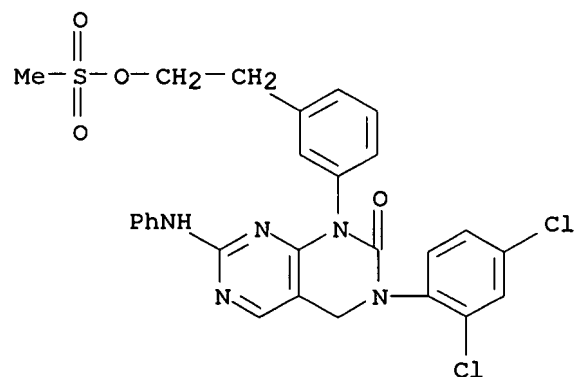
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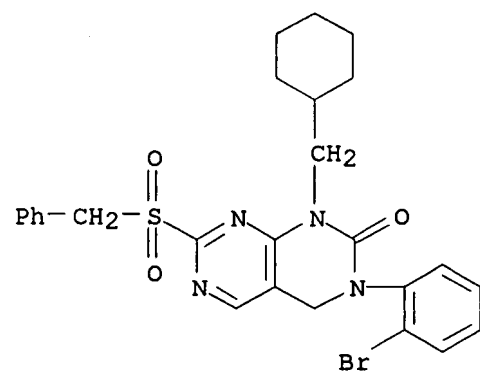
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INDEX NAME)



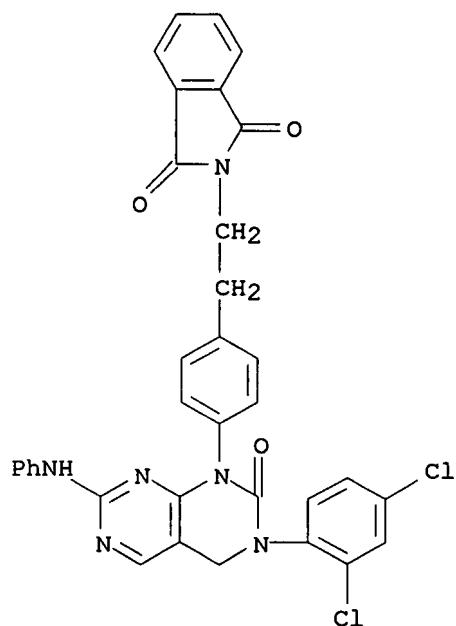
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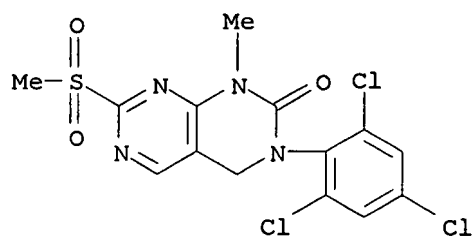
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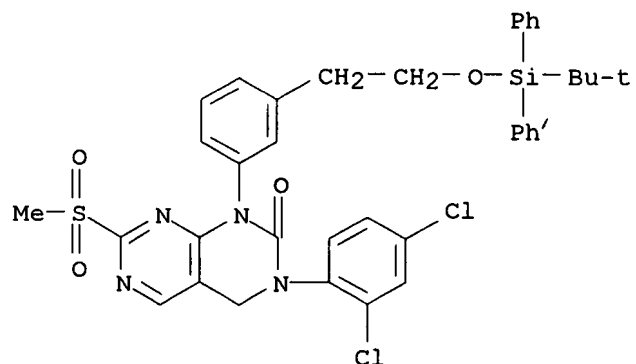
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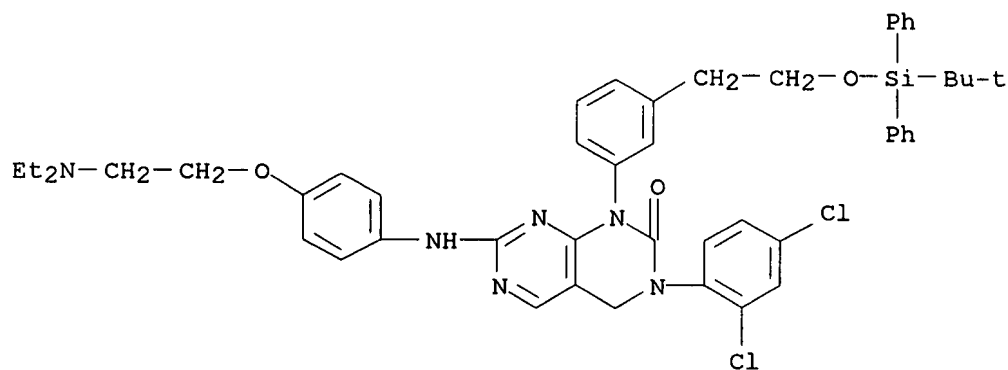
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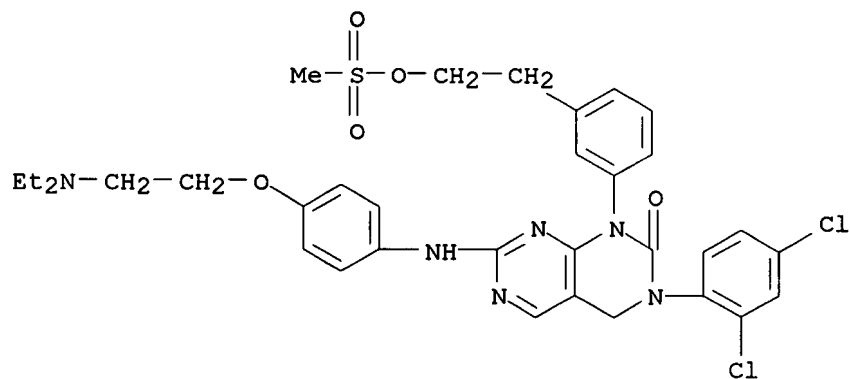
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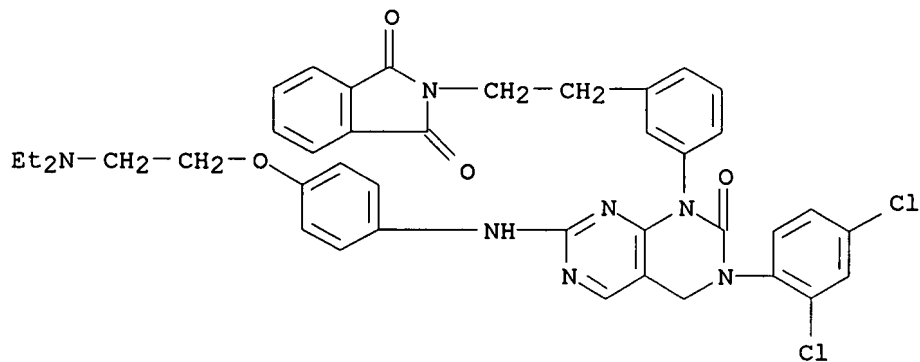
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CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,4-dichlorophenyl)-7-[[4-[2-(diethylamino)ethoxy]phenyl]amino]-3,4-dihydro-1-[3-[2-[(methanesulfonyl)oxy]ethyl]phenyl]- (9CI) (CA INDEX NAME)



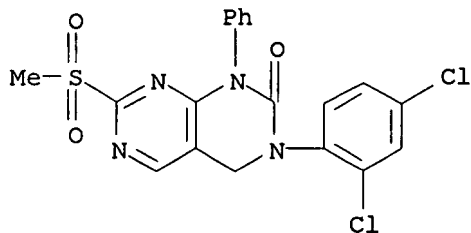
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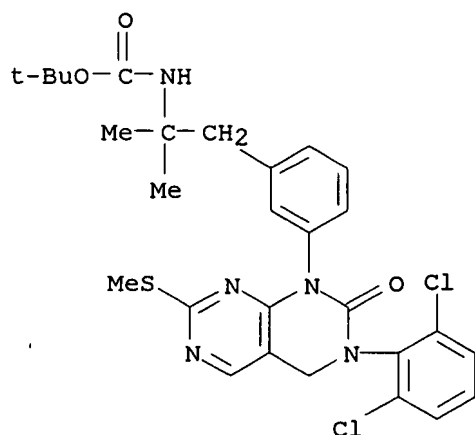
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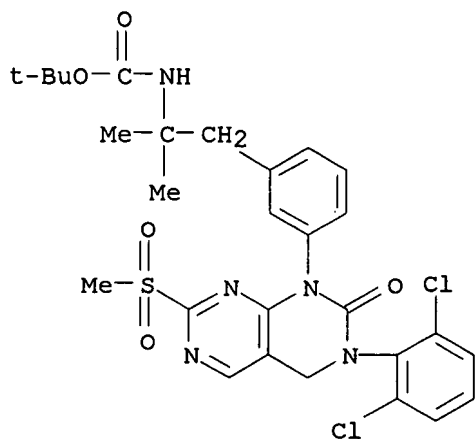
CN Carbamic acid, [2-[3-[3-(2,6-dichlorophenyl)-3,4-dihydro-7-(methylthio)-2-oxopyrimido[4,5-d]pyrimidin-1(2H)-yl]phenyl]-1,1-dimethylethyl]-,

1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



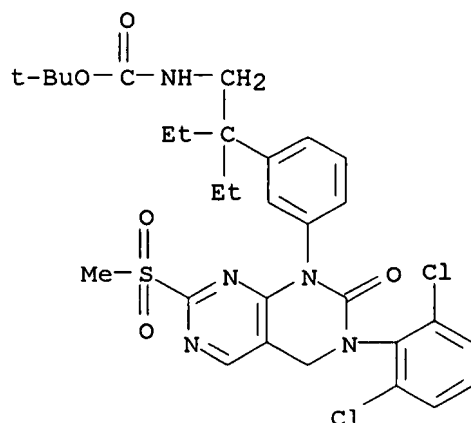
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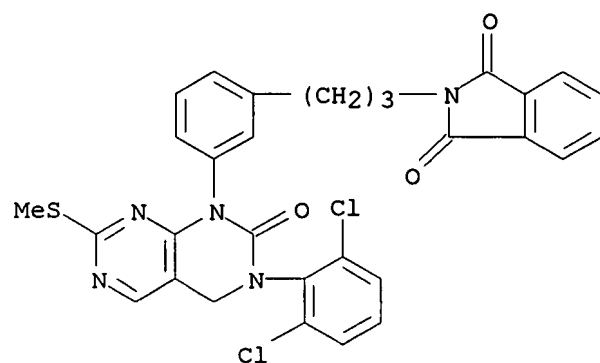


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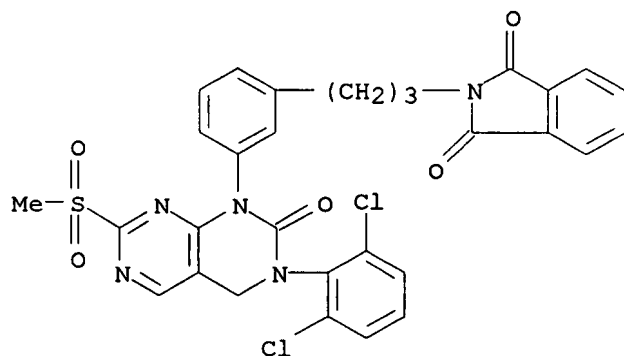
CN Carbamic acid, [2-[3-[3-(2,6-dichlorophenyl)-3,4-dihydro-7-(methylsulfonyl)-2-oxopyrimido[4,5-d]pyrimidin-1(2H)-yl]phenyl]-2-ethylbutyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



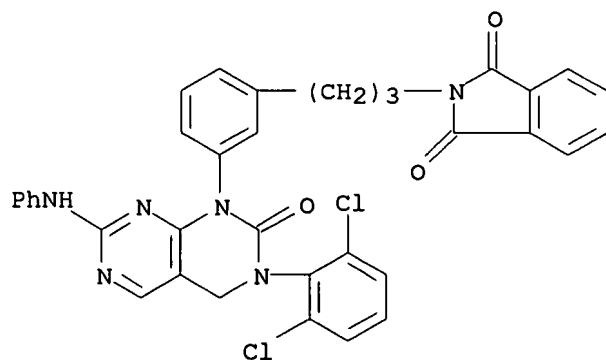
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 (CA INDEX NAME)



RN 266315-32-6 CAPLUS  
 CN 1H-Isoindole-1,3(2H)-dione,  
 2-[3-[3-[3-(2,6-dichlorophenyl)-3,4-dihydro-7-(methylsulfonyl)-2-oxopyrimido[4,5-d]pyrimidin-1(2H)-yl]phenyl]propyl]- (9CI) (CA INDEX NAME)

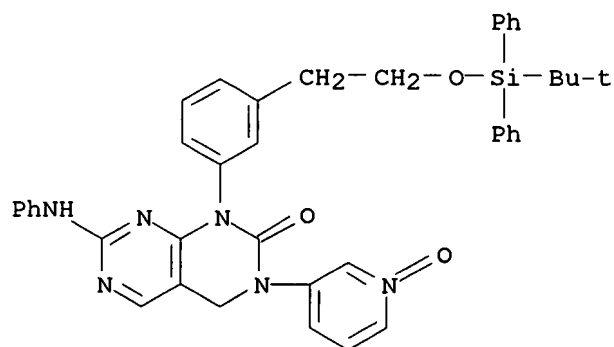


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 (9CI)  
 (CA INDEX NAME)

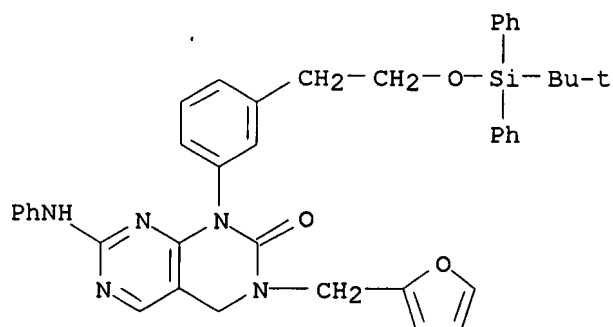


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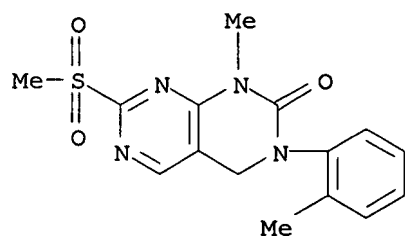




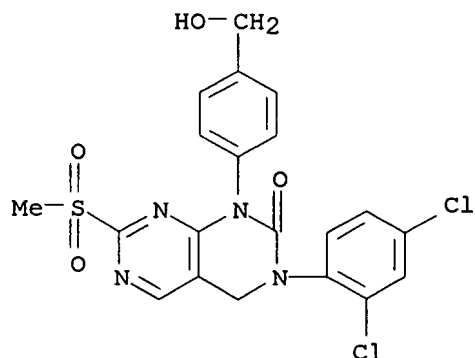
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RN 266315-45-1 CAPLUS  
 CN Pyrimido[2,5-d]pyrimidin-2(1H)-one, 3,4-dihydro-1-methyl-3-(2-methylphenyl)-7-(methylsulfonyl)- (9CI) (CA INDEX NAME)



RN 266315-97-3 CAPLUS  
 CN Pyrimido[2,5-d]pyrimidin-2(1H)-one, 3-(2,4-dichlorophenyl)-3,4-dihydro-1-[4-(hydroxymethyl)phenyl]-7-(methylsulfonyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 3  
 REFERENCE(S): (1) Bridges, A; US 5654307 A 1997 CAPLUS  
 (2) Celltech Therapeutics Ltd; WO 9811095 A 1998 CAPLUS  
 (3) Celltech Therapeutics Ltd; WO 9828281 A 1998 CAPLUS

L4 ANSWER 3 OF 36 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1999:764041 CAPLUS

DOCUMENT NUMBER: 132:22971

TITLE: Preparation of oxopyrido- and -pyrimidopyrimidines as cellular proliferation inhibitors

INVENTOR(S): Dobrusin, Ellen Myra; Hamby, James Marino; Kramer, James Bernard; Schroeder, Mel Conrad; Showalter, Howard Daniel Hollis; Toogood, Peter; Trumpp-Kallmeyer, Susanne A.

PATENT ASSIGNEE(S): Warner-Lambert Co., USA

SOURCE: PCT Int. Appl., 133 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

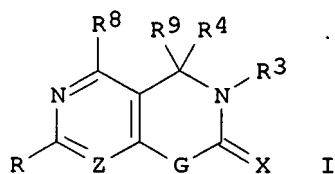
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 9961444	A3	20000203		
W:	AE, AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GD, GE, HR, HU, ID, IL, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
AU 9940734	A1	19991213	AU 1999-40734	19990510
PRIORITY APPLN. INFO.:			US 1998-86708	19980526
			US 1999-126158	19990325
			WO 1999-US10187	19990510

OTHER SOURCE(S): MARPAT 132:22971

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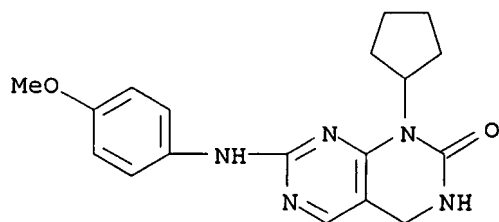
AB Title compds. [I; G = NR<sub>2</sub> or CHR<sub>2</sub>; R = NHR<sub>1</sub> or SOO-2R<sub>1</sub>; R<sub>1</sub>,R<sub>2</sub> = H, (cyclo)alkyl, (un)substituted PH, -pyridyl, etc.; R<sub>3</sub> = groups cited for R<sub>1</sub>, OH, alkoxy(carbonyl), etc.; R<sub>4</sub> = H; R<sub>3</sub>R<sub>4</sub> = bond; R<sub>8</sub>,R<sub>9</sub> = H, halo, NH<sub>2</sub>, alkoxy-carbonyl, etc.; X = O, S, (alkyl)imino, etc.; Z =N or CH] were prepd. as cyclin-dependant and tyrosine kinase inhibitors. Thus, 5-aminomethyl-4-cyclopentylamino-2-methylthiopyrimidine (prepn. given) was cyclocondensed with 1,1'-carbonyldiimidazole and the oxidized product aminated by 4-(MeO)C<sub>6</sub>H<sub>4</sub>NH<sub>2</sub> to give I [G = cyclopentylimino, R = 4-(MeO)C<sub>6</sub>H<sub>4</sub>NH, R<sub>3</sub> = R<sub>4</sub> = R<sub>8</sub> = R<sub>9</sub> = H, X = O]. Data for biol. activity of I were given.

IT 251371-31-0P 251371-32-1P 251371-33-2P  
 251371-34-3P 251371-35-4P 251371-37-6P  
 251371-38-7P 251371-43-4P 251371-44-5P  
 251371-47-8P 251371-49-0P 251371-50-3P  
 251371-51-4P 251371-52-5P 251371-54-7P  
 251371-56-9P

RL: BAC (Biological activity or effector, except adverse); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of bicyclic pyrimidines and bicyclic 3,4-dihydropyrimidines as inhibitors of cellular proliferation)

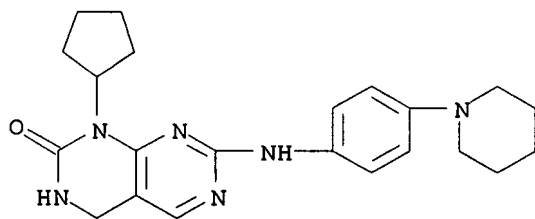
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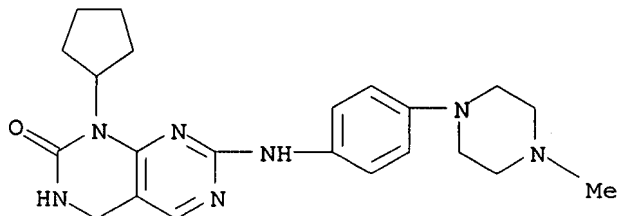
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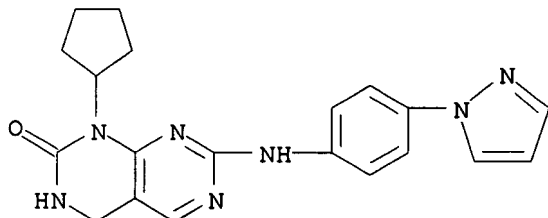
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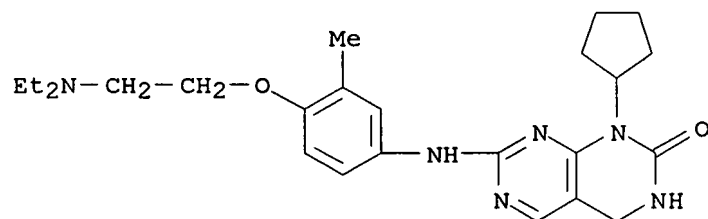
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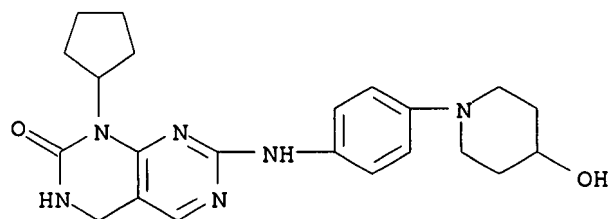
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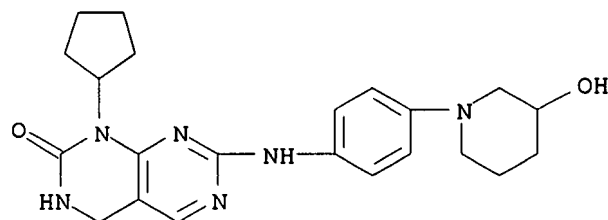
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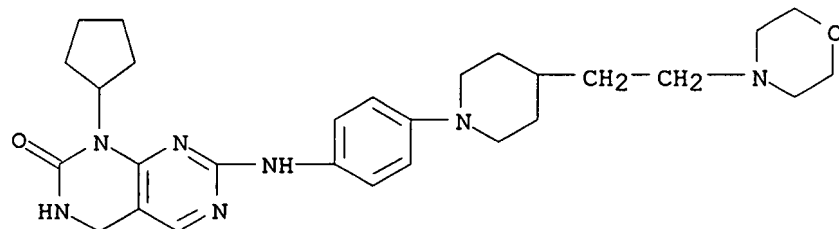
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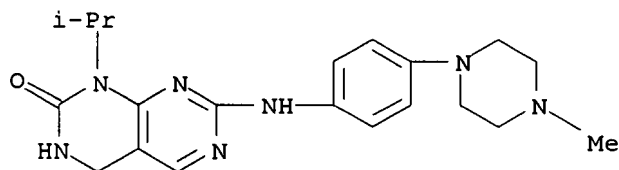


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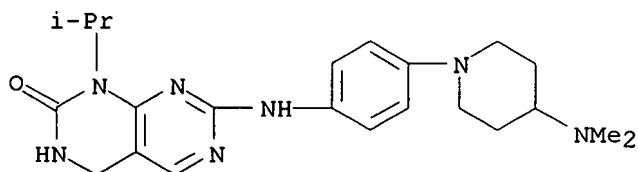
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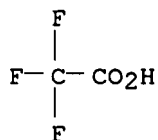
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CM 2

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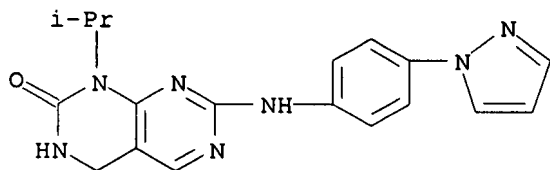
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09/ 623,737

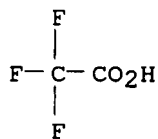
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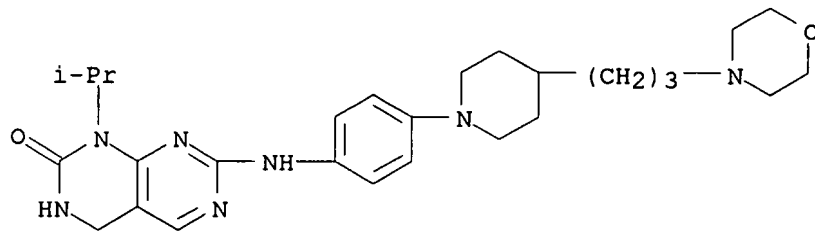


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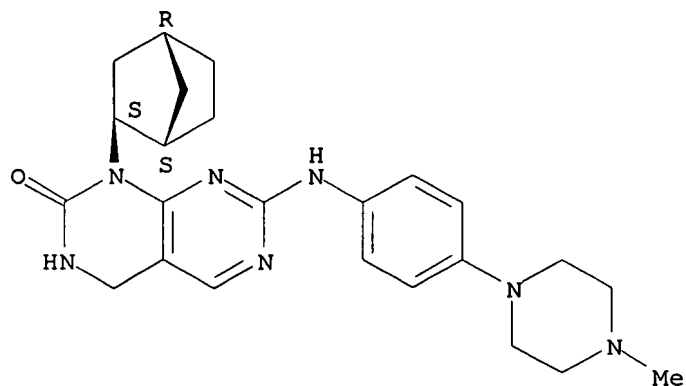
[3-(4-morpholinyl)propyl]-1-piperidinyl]phenyl]amino]- (9CI) (CA INDEX NAME)



RN 251371-51-4 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-(1R,2R,4S)-bicyclo[2.2.1]hept-2-yl-3,4-dihydro-7-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-, rel- (9CI) (CA INDEX NAME)

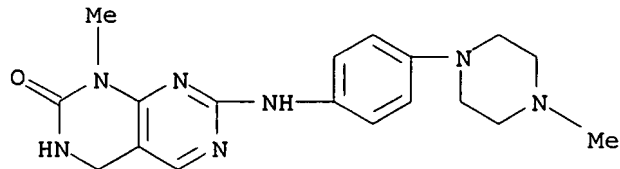
Relative stereochemistry.



RN 251371-52-5 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one,  
 3,4-dihydro-1-methyl-1-[[4-(4-methyl-1-  
 piperazinyl)phenyl]amino]-, bis(trifluoroacetate) (9CI) (CA INDEX NAME)

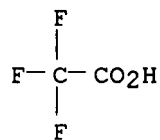
CM 1

CRN 251369-95-6  
 CMF C18 H23 N7 O



CM 2

CRN 76-05-1  
 CMF C2 H F3 O2



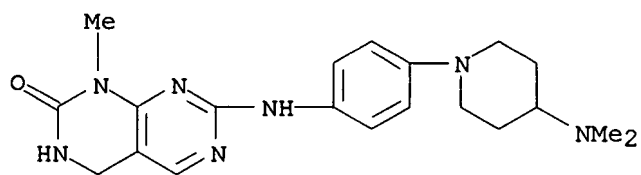
RN 251371-54-7 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 7-[[4-[4-(dimethylamino)-1-  
 piperidinyl]phenyl]amino]-3,4-dihydro-1-methyl-, bis(trifluoroacetate)  
 (9CI) (CA INDEX NAME)

CM 1



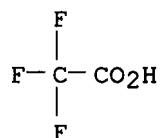
09/ 623,737

CRN 251369-97-8  
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CM 2

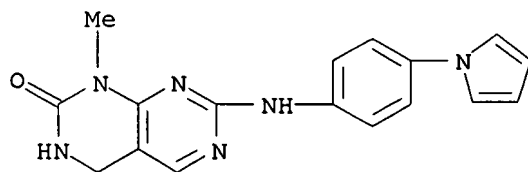
CRN 76-05-1  
CMF C2 H F3 O2



RN 251371-56-9 CAPLUS  
CN Pyrimido[4,5-d]pyrimidin-2(1H)-one,  
3,4-dihydro-1-methyl-7-[[4-(1H-pyrrol-  
1-yl)phenyl]amino]-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

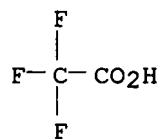
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CRN 251371-55-8  
CMF C17 H16 N6 O



CM 2

CRN 76-05-1  
CMF C2 H F3 O2



IT 251369-75-2P 251369-76-3P 251369-77-4P  
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 251369-81-0P 251369-82-1P 251369-83-2P  
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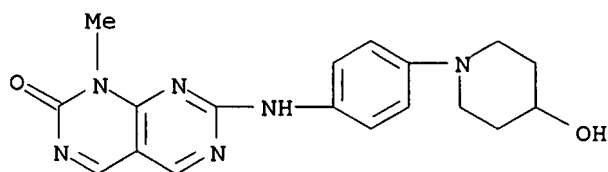
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 251371-88-7P 251371-89-8P 251371-90-1P  
 251371-91-2P 251371-92-3P 251371-93-4P

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of bicyclic pyrimidines and bicyclic 3,4-dihydropyrimidines as inhibitors of cellular proliferation)

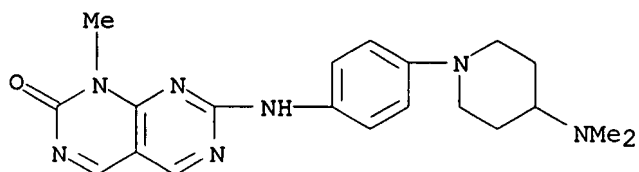
RN 251369-75-2 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 7-[[4-(4-hydroxy-1-piperidiny]phenyl]amino]-1-methyl- (9CI) (CA INDEX NAME)



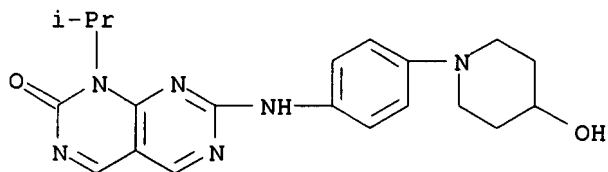
RN 251369-76-3 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 7-[[4-[4-(dimethylamino)-1-piperidiny]phenyl]amino]-1-methyl- (9CI) (CA INDEX NAME)



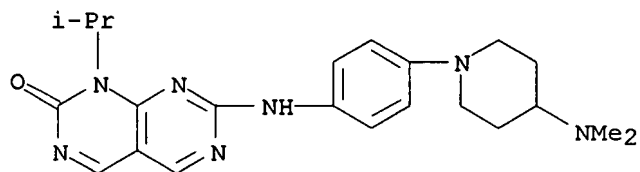
RN 251369-77-4 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 7-[[4-(4-hydroxy-1-piperidiny]phenyl]amino]-1-(1-methylethyl)- (9CI) (CA INDEX NAME)



RN 251369-78-5 CAPLUS

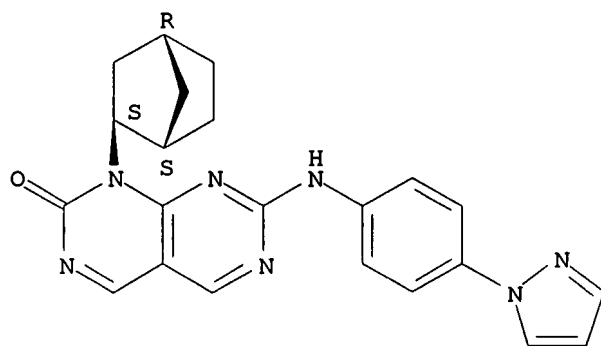
CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 7-[[4-[4-(dimethylamino)-1-piperidinyl]phenyl]amino]-1-(1-methylethyl)- (9CI) (CA INDEX NAME)



RN 251369-79-6 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-(1R,2R,4S)-bicyclo[2.2.1]hept-2-yl-7-[[4-(1H-pyrazol-1-yl)phenyl]amino]-, rel- (9CI) (CA INDEX NAME)

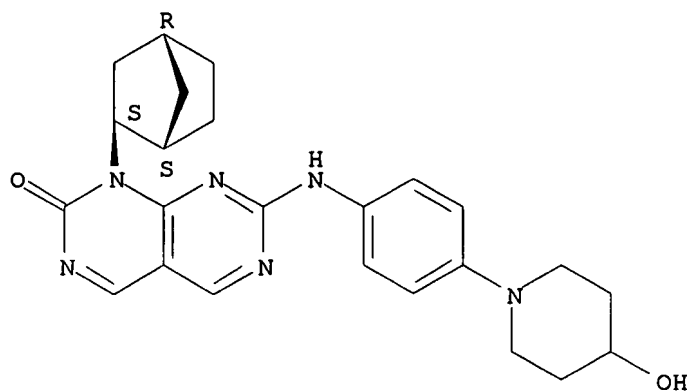
Relative stereochemistry.



RN 251369-80-9 CAPLUS

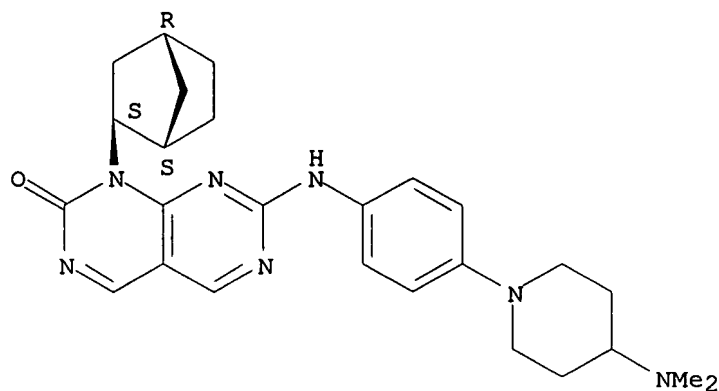
CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-(1R,2R,4S)-bicyclo[2.2.1]hept-2-yl-7-[[4-(4-hydroxy-1-piperidinyl)phenyl]amino]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

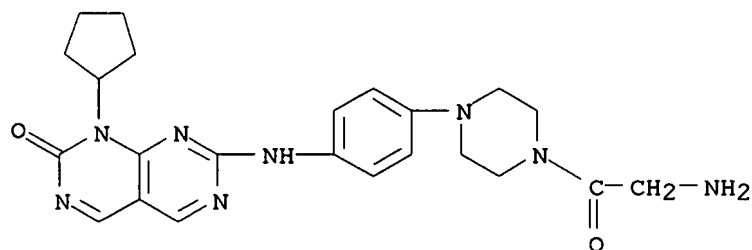


RN 251369-81-0 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one,  
 1-(1R,2R,4S)-bicyclo[2.2.1]hept-2-yl-7-  
 [[4-[4-(dimethylamino)-1-piperidinyl]phenyl]amino]-, rel- (9CI) (CA  
 INDEX  
 NAME)

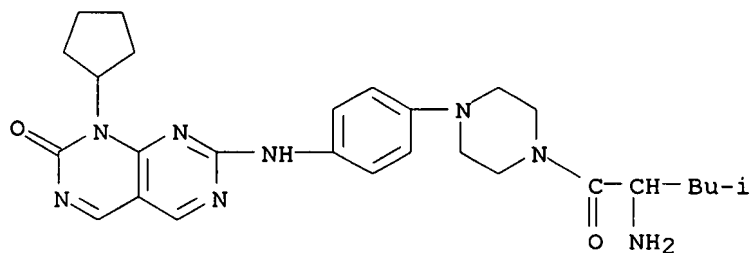
Relative stereochemistry.



RN 251369-82-1 CAPLUS  
 CN Piperazine, 1-(aminoacetyl)-4-[4-[(8-cyclopentyl-7,8-dihydro-7-  
 oxopyrimido[4,5-d]pyrimidin-2-yl)amino]phenyl]- (9CI) (CA INDEX NAME)

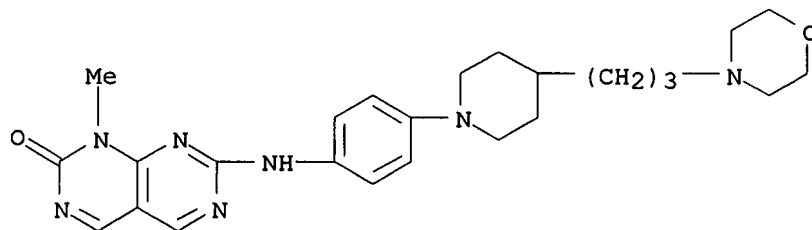


RN 251369-83-2 CAPLUS  
 CN Piperazine, 1-(2-amino-4-methyl-1-oxopentyl)-4-[4-[(8-cyclopentyl-7,8-  
 dihydro-7-oxopyrimido[4,5-d]pyrimidin-2-yl)amino]phenyl]- (9CI) (CA  
 INDEX  
 NAME)



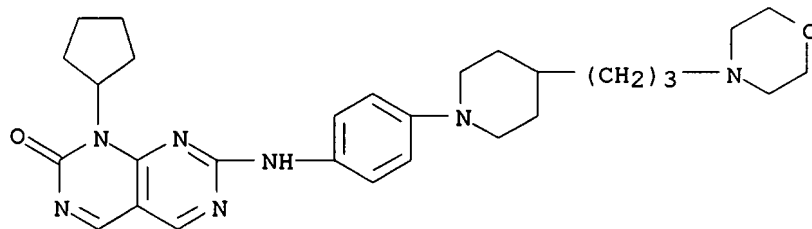
RN 251369-84-3 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-methyl-7-[[4-[4-[3-(4-morpholinyl)propyl]-1-piperidinyl]phenyl]amino]- (9CI) (CA INDEX NAME)



RN 251369-85-4 CAPLUS

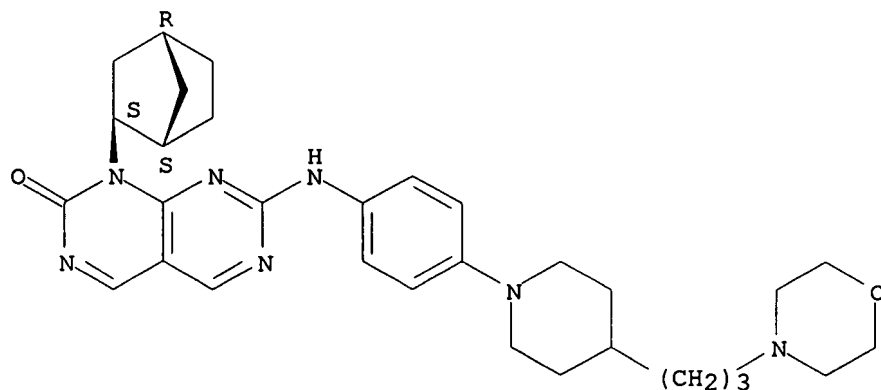
CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-cyclopentyl-7-[[4-[4-[3-(4-morpholinyl)propyl]-1-piperidinyl]phenyl]amino]- (9CI) (CA INDEX NAME)



RN 251369-86-5 CAPLUS

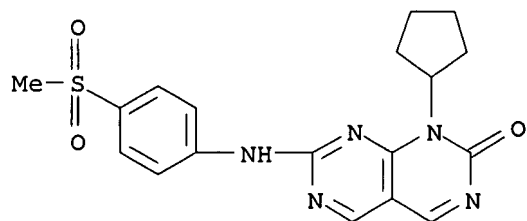
CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-(1R,2R,4S)-bicyclo[2.2.1]hept-2-yl-7-[[4-[4-[3-(4-morpholinyl)propyl]-1-piperidinyl]phenyl]amino]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



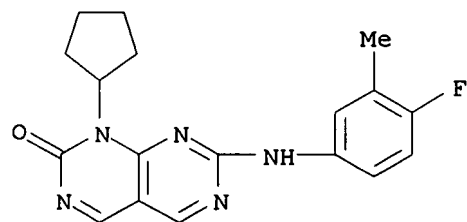
RN 251369-87-6 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-cyclopentyl-7-[[4-(methylsulfonyl)phenyl]amino]- (9CI) (CA INDEX NAME)



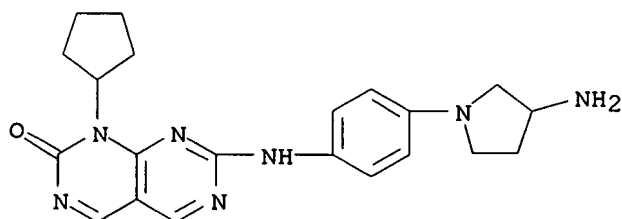
RN 251369-88-7 CAPLUS

CN    Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-cyclopentyl-7-[(4-fluoro-3-methylphenyl)amino]- (9CI)    (CA INDEX NAME)



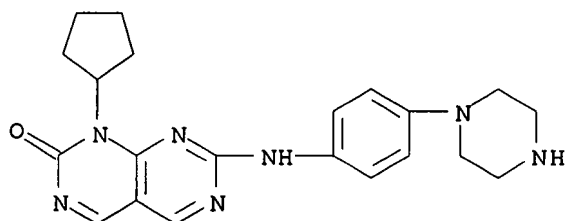
RN 251369-89-8 CAPLUS

CN    Pyrimido[4,5-d]pyrimidin-2(1H)-one, 7-[[4-(3-amino-1-pyrrolidinyl)phenyl]amino]-1-cyclopentyl- (9CI)    (CA INDEX NAME)



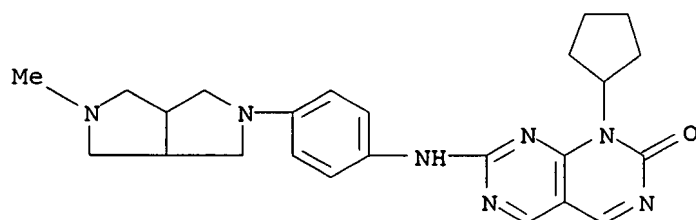
RN 251369-90-1 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-cyclopentyl-7-[[4-(1-piperazinyl)phenyl]amino]- (9CI) (CA INDEX NAME)



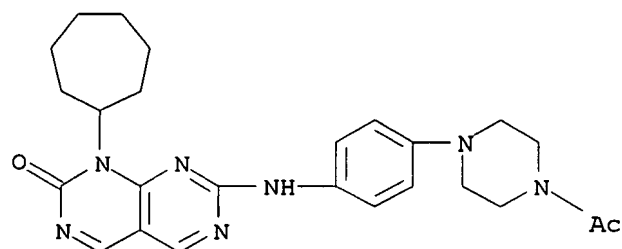
RN 251369-91-2 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-cyclopentyl-7-[[4-(hexahydro-5-methylpyrrolo[3,4-c]pyrrol-2(1H)-yl)phenyl]amino]- (9CI) (CA INDEX NAME)



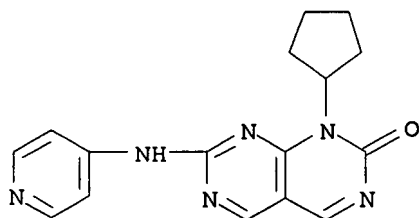
RN 251369-92-3 CAPLUS

CN Piperazine, 1-acetyl-4-[4-[(8-cycloheptyl-7,8-dihydro-7-oxopyrimido[4,5-d]pyrimidin-2-yl)amino]phenyl]- (9CI) (CA INDEX NAME)

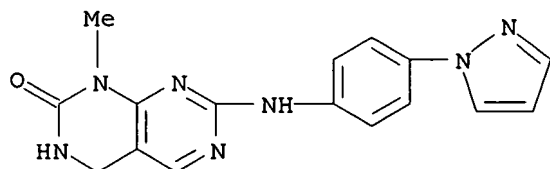




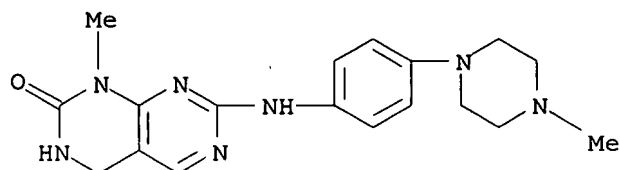
RN 251369-93-4 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-cyclopentyl-7-(4-pyridinylamino)-  
(9CI) (CA INDEX NAME)

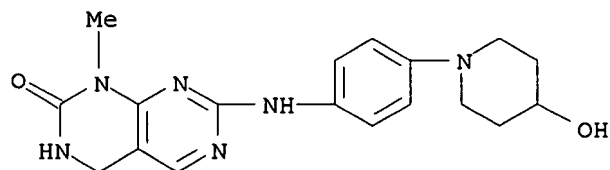
RN 251369-94-5 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one,  
3,4-dihydro-1-methyl-7-[[4-(1H-pyrazol-  
1-yl)phenyl]amino]- (9CI) (CA INDEX NAME)

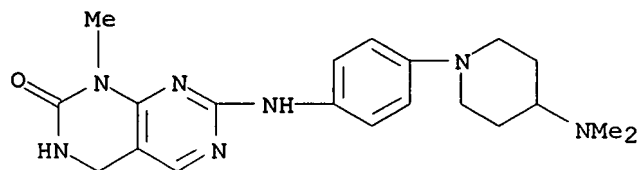
RN 251369-95-6 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one,  
3,4-dihydro-1-methyl-7-[[4-(4-methyl-1-  
piperazinyl)phenyl]amino]- (9CI) (CA INDEX NAME)

RN 251369-96-7 CAPLUS

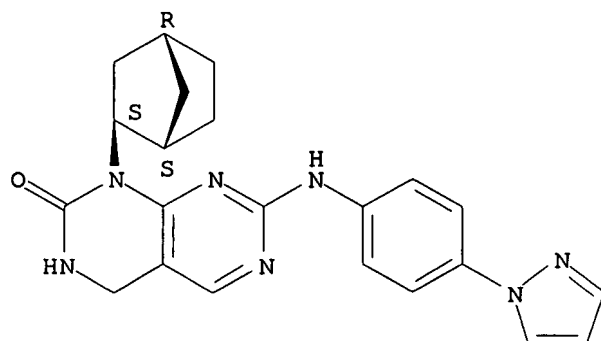
CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3,4-dihydro-7-[[4-(4-hydroxy-1-  
piperidinyl)phenyl]amino]-1-methyl- (9CI) (CA INDEX NAME)

RN 251369-97-8 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 7-[[4-[4-(dimethylamino)-1-piperidinyl]phenyl]amino]-3,4-dihydro-1-methyl- (9CI) (CA INDEX NAME)



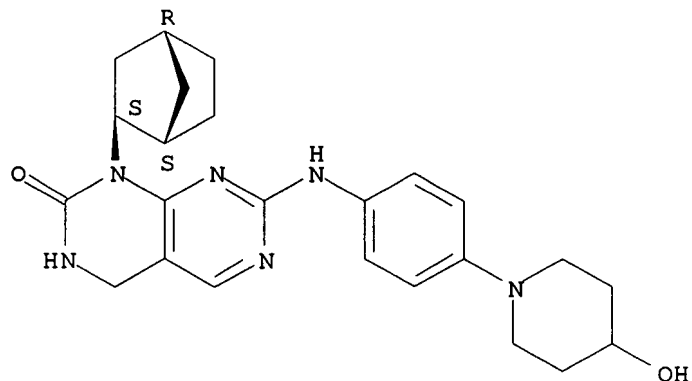
RN 251369-98-9 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-(1R,2R,4S)-bicyclo[2.2.1]hept-2-yl-3,4-dihydro-7-[[4-(1H-pyrazol-1-yl)phenyl]amino]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 251369-99-0 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-(1R,2R,4S)-bicyclo[2.2.1]hept-2-yl-3,4-dihydro-7-[[4-(4-hydroxy-1-piperidinyl)phenyl]amino]-, rel- (9CI)  
 (CA INDEX NAME)

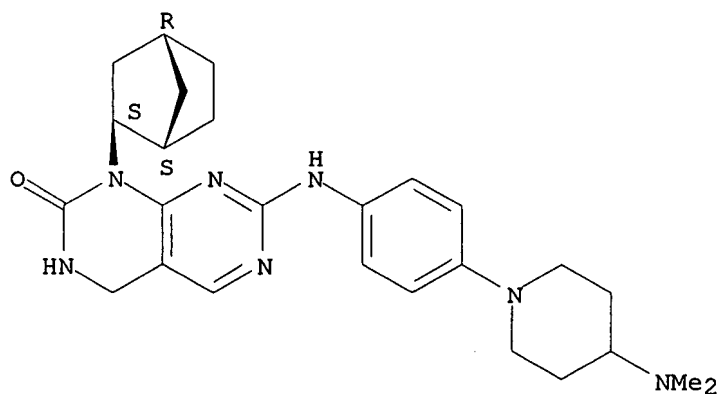
Relative stereochemistry.



RN 251370-00-0 CAPLUS

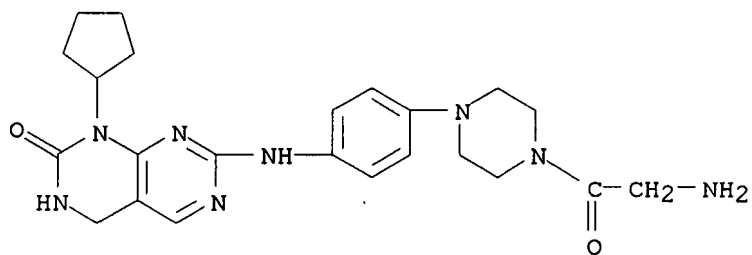
CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-(1R,2R,4S)-bicyclo[2.2.1]hept-2-yl-3,4-dihydro-7-[[4-[4-(dimethylamino)-1-piperidinyl]phenyl]amino]-, rel-(9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 251370-01-1 CAPLUS

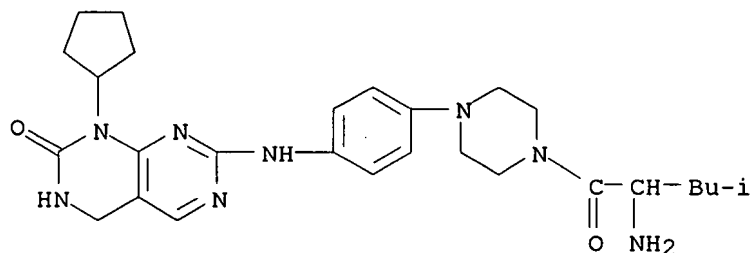
CN Piperazine, 1-(aminoacetyl)-4-[4-[(8-cyclopentyl-5,6,7,8-tetrahydro-7-oxopyrimido[4,5-d]pyrimidin-2-yl)amino]phenyl]- (9CI) (CA INDEX NAME)



RN 251370-02-2 CAPLUS

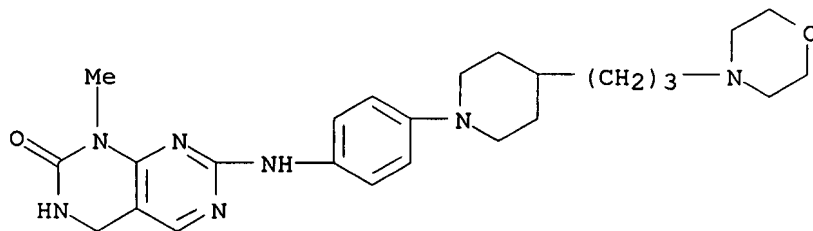
CN Piperazine,

1-(2-amino-4-methyl-1-oxopentyl)-4-[4-[(8-cyclopentyl-5,6,7,8-tetrahydro-7-oxopyrimido[4,5-d]pyrimidin-2-yl)amino]phenyl]- (9CI) (CA INDEX NAME)



RN 251370-03-3 CAPLUS

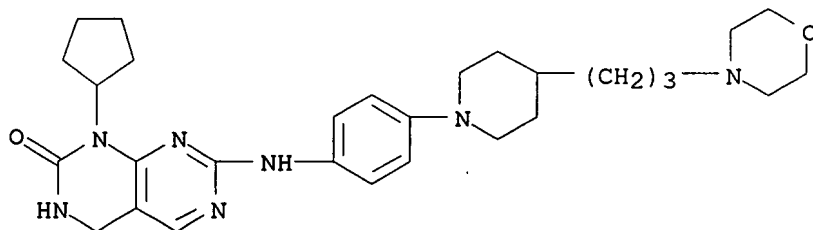
CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3,4-dihydro-1-methyl-7-[[4-[4-[3-(4-morpholinyl)propyl]-1-piperidinyl]phenyl]amino]- (9CI) (CA INDEX NAME)



RN 251370-04-4 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one,

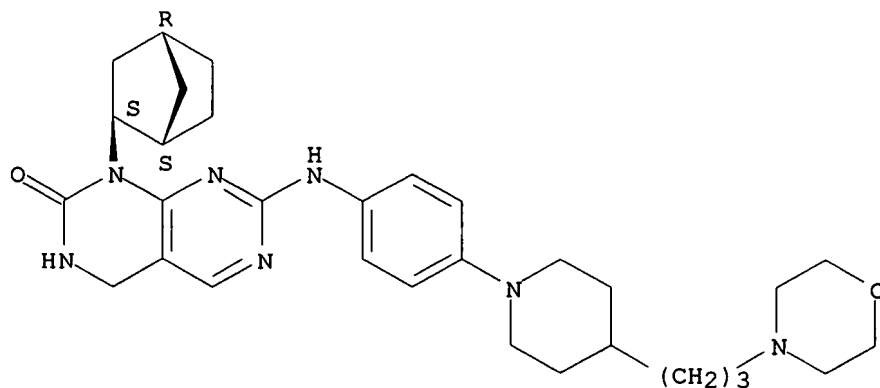
1-cyclopentyl-3,4-dihydro-7-[[4-[4-[3-(4-morpholinyl)propyl]-1-piperidinyl]phenyl]amino]- (9CI) (CA INDEX NAME)



RN 251370-05-5 CAPLUS

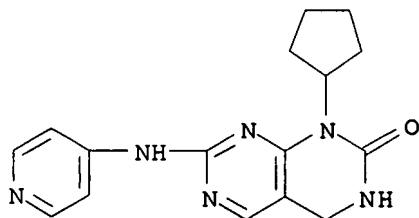
CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-(1R,2R,4S)-bicyclo[2.2.1]hept-2-yl-3,4-dihydro-7-[[4-[4-[3-(4-morpholinyl)propyl]-1-piperidinyl]phenyl]amino]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



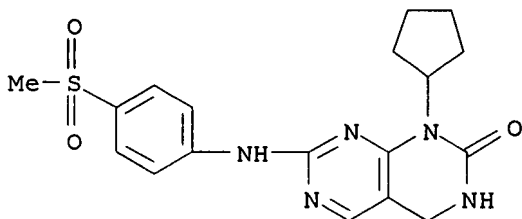
RN 251370-06-6 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-cyclopentyl-3,4-dihydro-7-(4-pyridinylamino)- (9CI) (CA INDEX NAME)



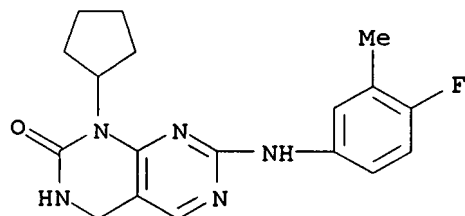
RN 251370-07-7 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-cyclopentyl-3,4-dihydro-7-[[4-(methylsulfonyl)phenyl]amino]- (9CI) (CA INDEX NAME)



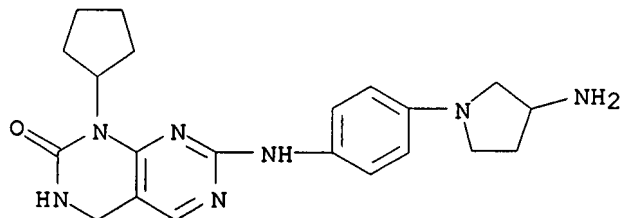
RN 251370-08-8 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-cyclopentyl-7-[(4-fluoro-3-methylphenyl)amino]-3,4-dihydro- (9CI) (CA INDEX NAME)



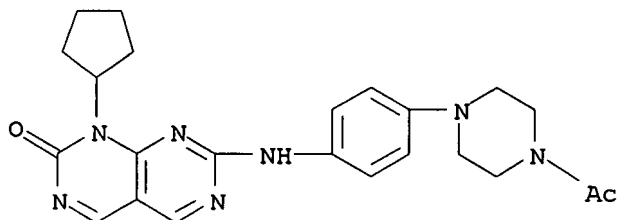
RN 251370-09-9 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 7-[[4-(3-amino-1-pyrrolidinyl)phenyl]amino]-1-cyclopentyl-3,4-dihydro- (9CI) (CA INDEX NAME)



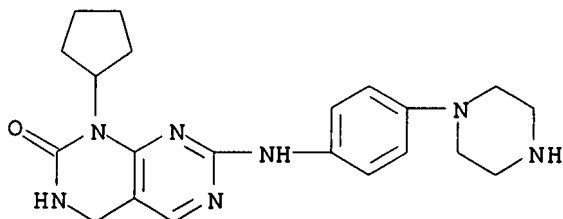
RN 251370-10-2 CAPLUS

CN Piperazine, 1-acetyl-4-[4-[(8-cyclopentyl-7,8-dihydro-7-oxopyrimido[4,5-d]pyrimidin-2-yl)amino]phenyl]- (9CI) (CA INDEX NAME)



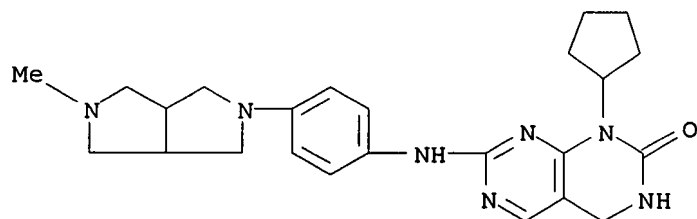
RN 251370-11-3 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-cyclopentyl-3,4-dihydro-7-[[4-(1-piperazinyl)phenyl]amino]- (9CI) (CA INDEX NAME)



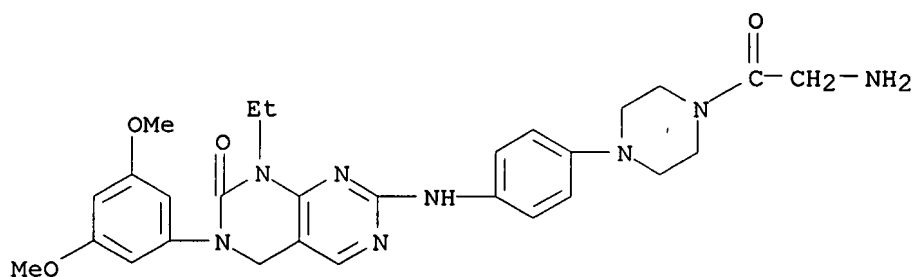
RN 251370-12-4 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-cyclopentyl-7-[[4-(hexahydro-5-methylpyrrolo[3,4-c]pyrrol-2(1H)-yl)phenyl]amino]-3,4-dihydro- (9CI) (CA INDEX NAME)



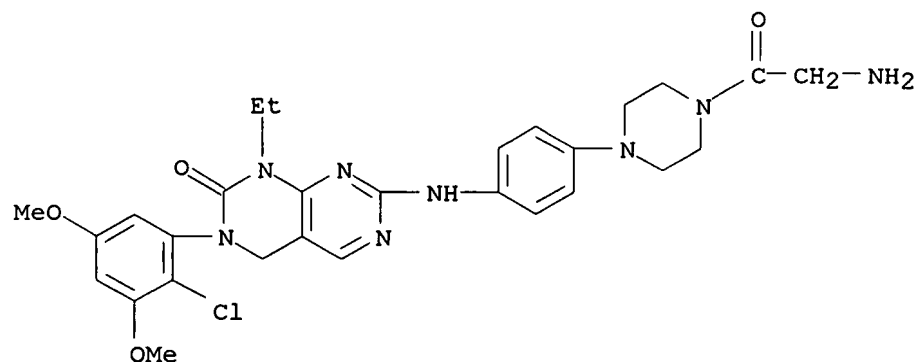
RN 251370-13-5 CAPLUS

CN Piperazine, 1-(aminoacetyl)-4-[4-[[6-(3,5-dimethoxyphenyl)-8-ethyl-5,6,7,8-tetrahydro-7-oxopyrimido[4,5-d]pyrimidin-2-yl]amino]phenyl]- (9CI) (CA INDEX NAME)



RN 251370-14-6 CAPLUS

CN Piperazine, 1-(aminoacetyl)-4-[4-[[6-(2-chloro-3,5-dimethoxyphenyl)-8-ethyl-5,6,7,8-tetrahydro-7-oxopyrimido[4,5-d]pyrimidin-2-yl]amino]phenyl]- (9CI) (CA INDEX NAME)

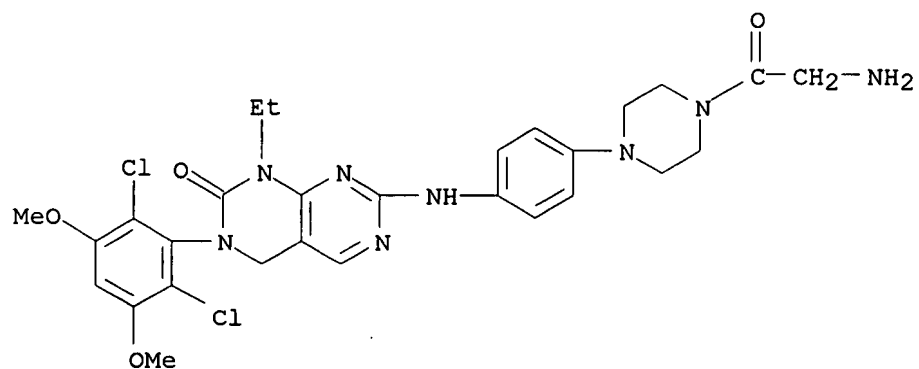


RN 251370-15-7 CAPLUS

CN Piperazine,

1-(aminoacetyl)-4-[4-[[6-(2,6-dichloro-3,5-dimethoxyphenyl)-8-

ethyl-5,6,7,8-tetrahydro-7-oxopyrimido[4,5-d]pyrimidin-2-yl]amino]phenyl]-  
(9CI) (CA INDEX NAME)

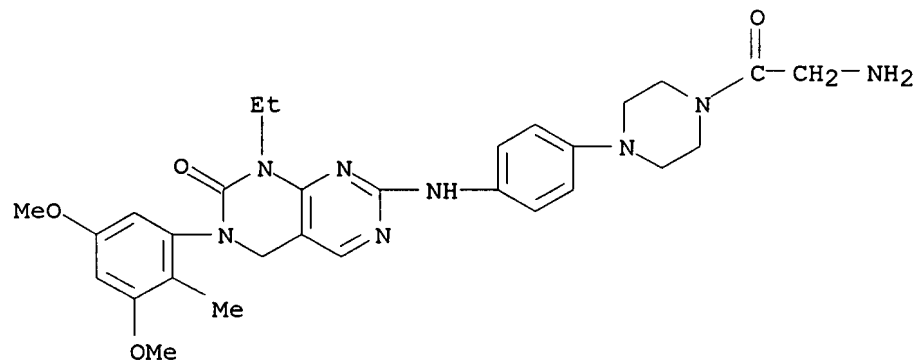


RN 251370-16-8 CAPLUS

CN Piperazine, 1-(aminoacetyl)-4-[4-[[6-(3,5-dimethoxy-2-methylphenyl)-8-

ethyl-5,6,7,8-tetrahydro-7-oxopyrimido[4,5-d]pyrimidin-2-yl]amino]phenyl]-  
(9CI) (CA INDEX NAME)



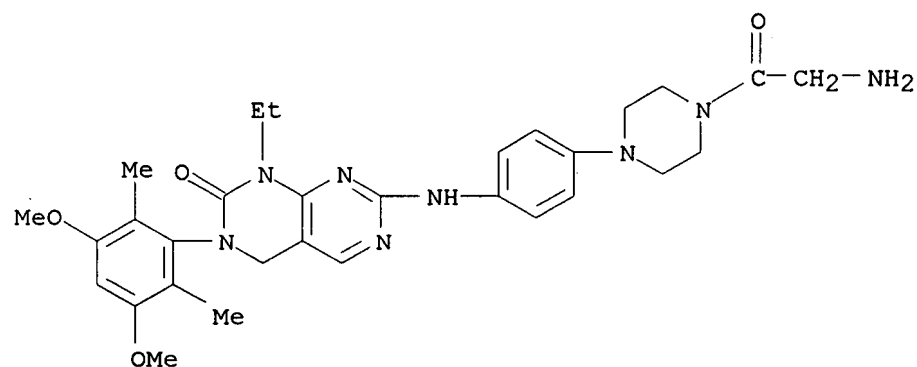


RN 251370-17-9 CAPLUS

CN Piperazine,

1-(aminoacetyl)-4-[4-[[6-(3,5-dimethoxy-2,6-dimethylphenyl)-8-

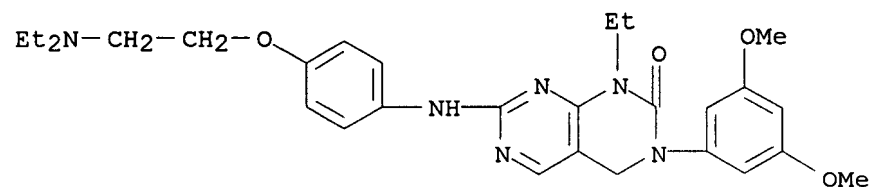
ethyl-5,6,7,8-tetrahydro-7-oxopyrimido[4,5-d]pyrimidin-2-yl]amino]phenyl]-  
(9CI) (CA INDEX NAME)



RN 251370-18-0 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one,

7-[[4-[2-(diethylamino)ethoxy]phenyl]amino]-3-(3,5-dimethoxyphenyl)-1-ethyl-3,4-dihydro- (9CI) (CA INDEX NAME)

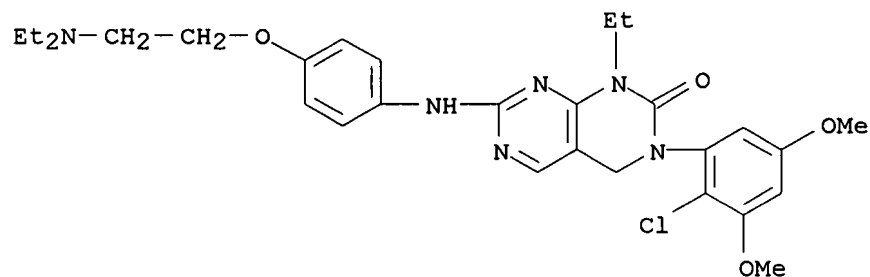


RN 251370-19-1 CAPLUS

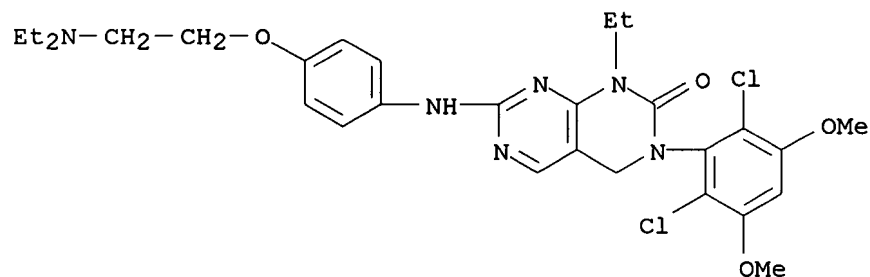
CN Pyrimido[4,5-d]pyrimidin-2(1H)-one,

3-(2-chloro-3,5-dimethoxyphenyl)-7-[[4-

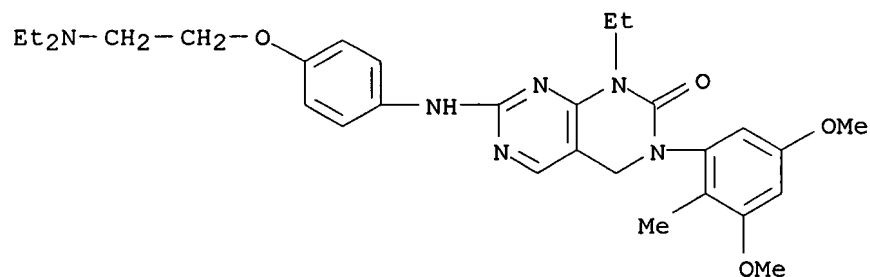
[2-(diethylamino)ethoxy]phenyl]amino]-1-ethyl-3,4-dihydro- (9CI) (CA INDEX NAME)



RN 251370-20-4 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one,  
 3-(2,6-dichloro-3,5-dimethoxyphenyl)-7-  
 [[4-[2-(diethylamino)ethoxy]phenyl]amino]-1-ethyl-3,4-dihydro- (9CI) (CA INDEX NAME)

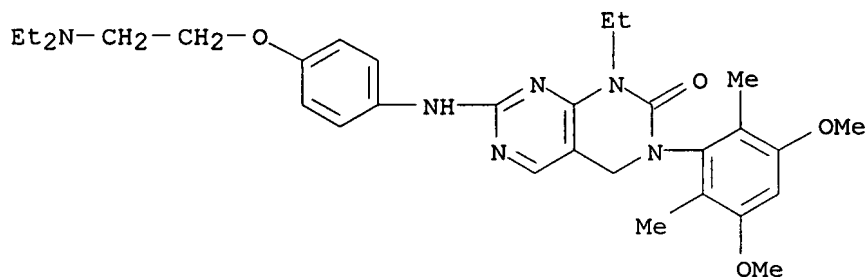


RN 251370-21-5 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one,  
 7-[[4-[2-(diethylamino)ethoxy]phenyl]a  
 mino]-3-(3,5-dimethoxy-2-methylphenyl)-1-ethyl-3,4-dihydro- (9CI) (CA INDEX NAME)

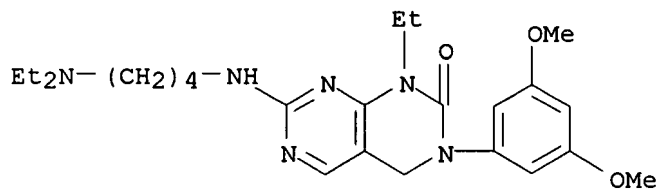


RN 251370-22-6 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one,  
 7-[[4-[2-(diethylamino)ethoxy]phenyl]a

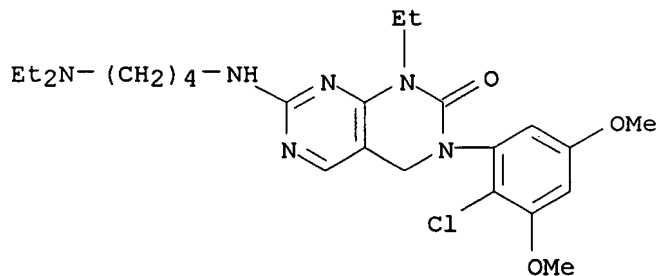
mino]-3-(3,5-dimethoxy-2,6-dimethylphenyl)-1-ethyl-3,4-dihydro- (9CI)  
 (CA INDEX NAME)



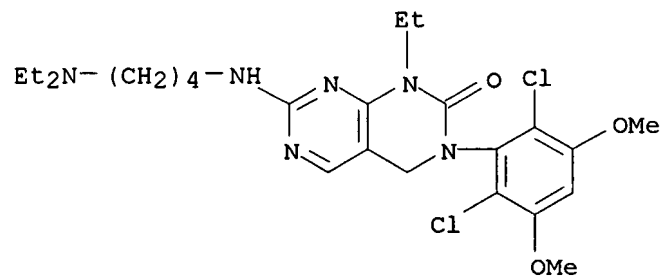
RN 251370-23-7 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 7-[[4-(diethylamino)butyl]amino]-3-(3,5-dimethoxyphenyl)-1-ethyl-3,4-dihydro- (9CI) (CA INDEX NAME)



RN 251370-24-8 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one,  
 3-(2-chloro-3,5-dimethoxyphenyl)-7-[[4-(diethylamino)butyl]amino]-1-ethyl-3,4-dihydro- (9CI) (CA INDEX NAME)

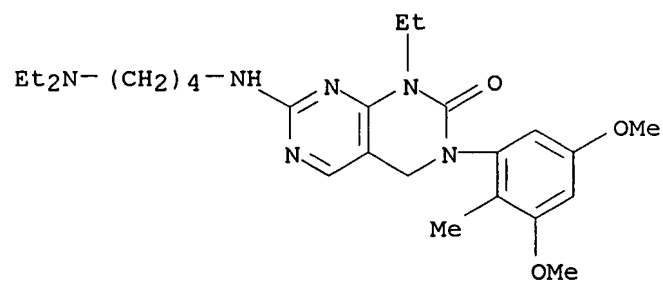


RN 251370-25-9 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one,  
 3-(2,6-dichloro-3,5-dimethoxyphenyl)-7-[[4-(diethylamino)butyl]amino]-1-ethyl-3,4-dihydro- (9CI) (CA INDEX NAME)



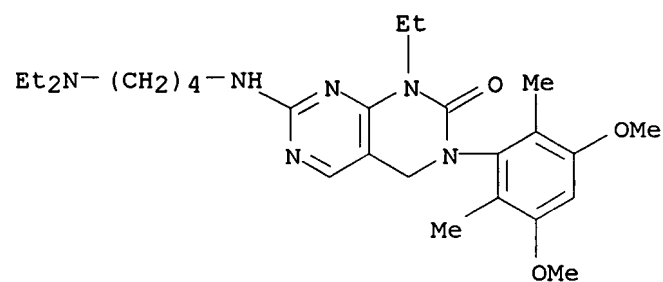
RN 251370-26-0 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 7-[[4-(diethylamino)butyl]amino]-3-(3,5-dimethoxy-2-methylphenyl)-1-ethyl-3,4-dihydro- (9CI) (CA INDEX NAME)



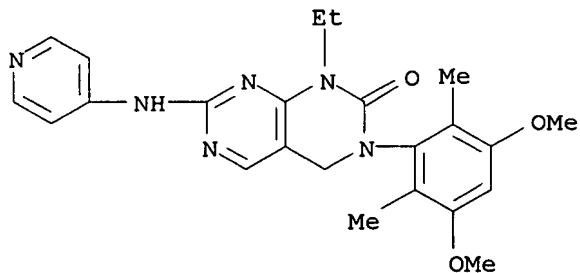
RN 251370-27-1 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 7-[[4-(diethylamino)butyl]amino]-3-(3,5-dimethoxy-2,6-dimethylphenyl)-1-ethyl-3,4-dihydro- (9CI) (CA INDEX NAME)



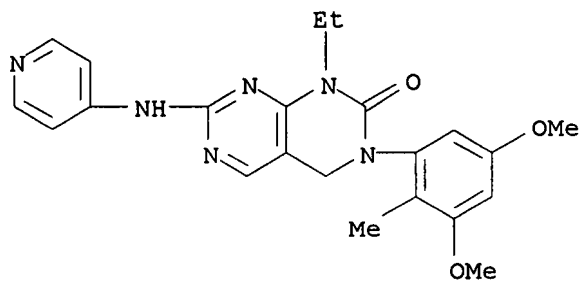
RN 251370-28-2 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(3,5-dimethoxyphenyl)-1-ethyl-3,4-dihydro-7-(4-pyridinylamino)- (9CI) (CA INDEX NAME)



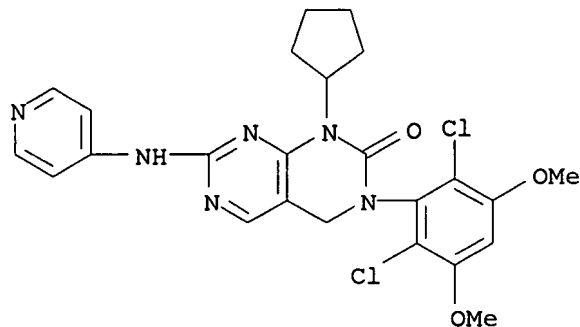
RN 251370-32-8 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(3,5-dimethoxy-2-methylphenyl)-1-ethyl-3,4-dihydro-7-(4-pyridinylamino)- (9CI) (CA INDEX NAME)



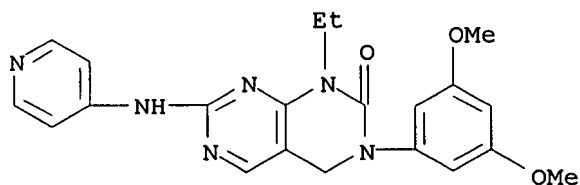
RN 251370-33-9 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-cyclopentyl-3-(2,6-dichloro-3,5-dimethoxyphenyl)-3,4-dihydro-7-(4-pyridinylamino)- (9CI) (CA INDEX NAME)



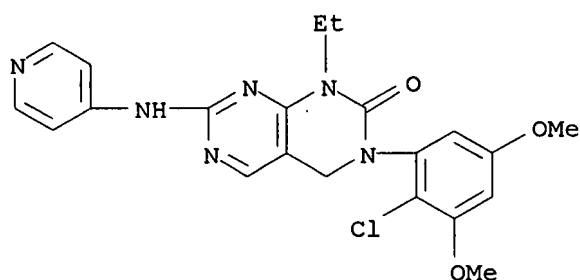
RN 251370-34-0 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2-chloro-3,5-dimethoxyphenyl)-7-[[4-(diethylamino)butyl]amino]-3,4-dihydro- (9CI) (CA INDEX NAME)



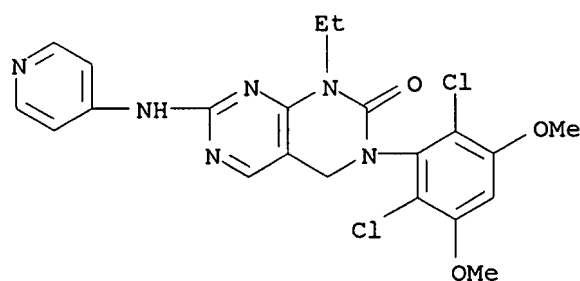
RN 251370-29-3 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2-chloro-3,5-dimethoxyphenyl)-1-ethyl-3,4-dihydro-7-(4-pyridinylamino)- (9CI) (CA INDEX NAME)



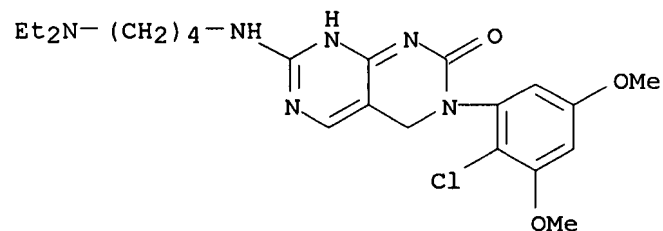
RN 251370-30-6 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,6-dichloro-3,5-dimethoxyphenyl)-1-ethyl-3,4-dihydro-7-(4-pyridinylamino)- (9CI) (CA INDEX NAME)

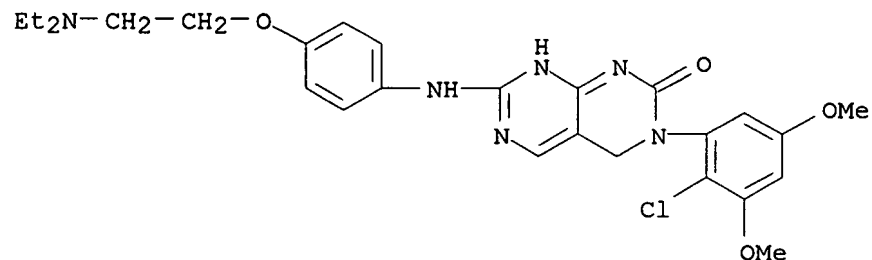


RN 251370-31-7 CAPLUS

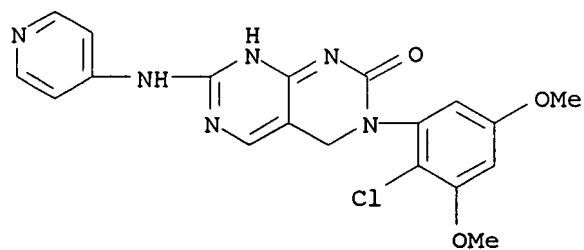
CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(3,5-dimethoxy-2,6-dimethylphenyl)-1-ethyl-3,4-dihydro-7-(4-pyridinylamino)- (9CI) (CA INDEX NAME)



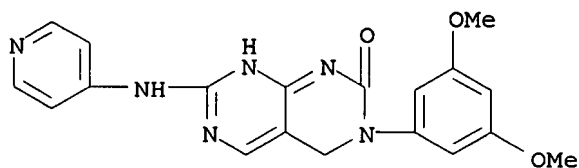
RN 251370-35-1 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one,  
 3-(2-chloro-3,5-dimethoxyphenyl)-7-[[4-  
 [2-(diethylamino)ethoxy]phenyl]amino]-3,4-dihydro- (9CI) (CA INDEX NAME)



RN 251370-36-2 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2-chloro-3,5-dimethoxyphenyl)-3,4-  
 dihydro-7-(4-pyridinylamino)- (9CI) (CA INDEX NAME)

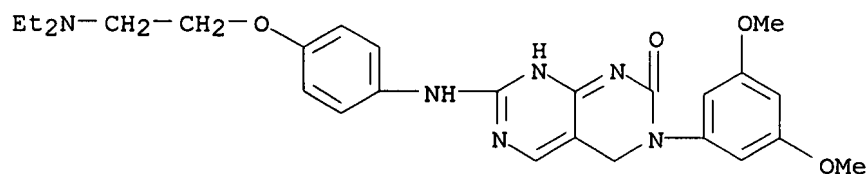


RN 251370-37-3 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one,  
 3-(3,5-dimethoxyphenyl)-3,4-dihydro-7-  
 (4-pyridinylamino)- (9CI) (CA INDEX NAME)



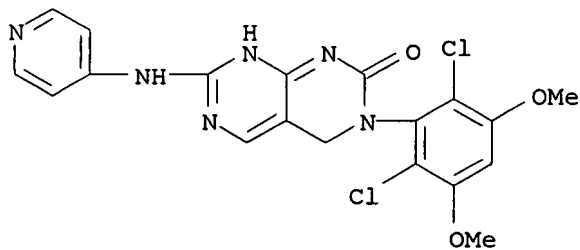
RN 251370-38-4 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one,  
7-[[4-[[2-(diethylamino)ethoxy]phenyl]a  
mino]-3-(3,5-dimethoxyphenyl)-3,4-dihydro- (9CI) (CA INDEX NAME)



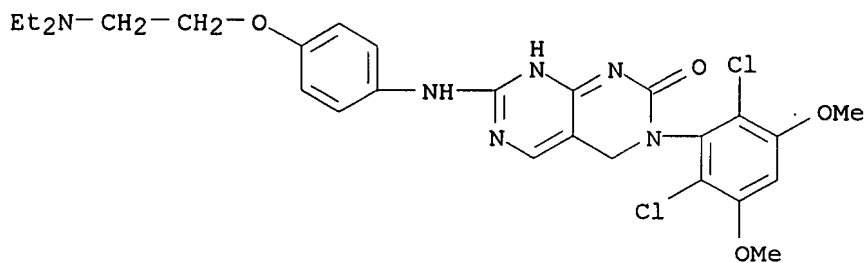
RN 251370-39-5 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,6-dichloro-3,5-dimethoxyphenyl)-  
3,4-dihydro-7-(4-pyridinylamino)- (9CI) (CA INDEX NAME)



RN 251370-40-8 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one,  
3-(2,6-dichloro-3,5-dimethoxyphenyl)-7-  
[[4-[[2-(diethylamino)ethoxy]phenyl]amino]-3,4-dihydro- (9CI) (CA INDEX  
NAME)

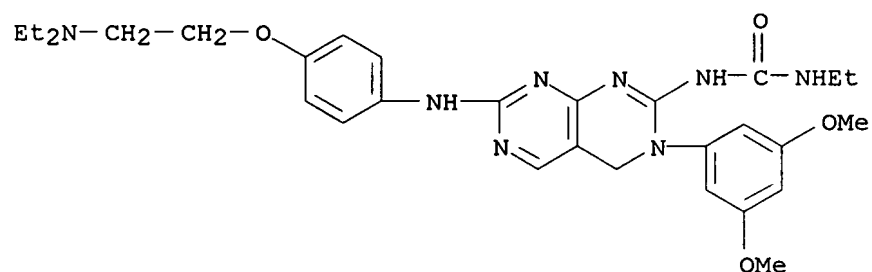




RN 251370-41-9 CAPLUS

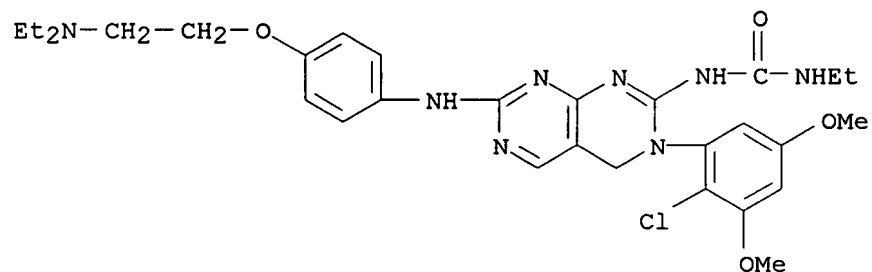
CN Urea, N-[7-[[4-[2-(diethylamino)ethoxy]phenyl]amino]-3-(3,5-dimethoxyphenyl)-3,4-dihydropyrimido[4,5-d]pyrimidin-2-yl]-N'-ethyl- (9CI)

(CA INDEX NAME)



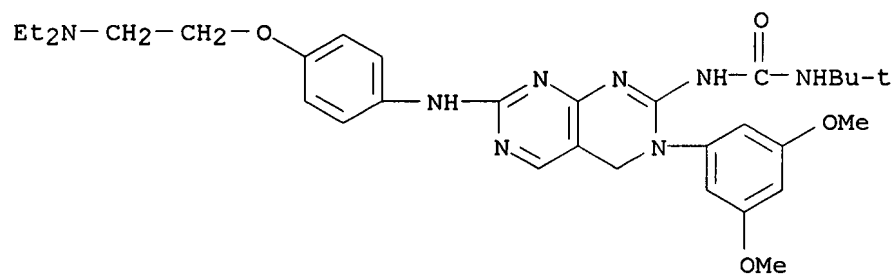
RN 251370-42-0 CAPLUS

CN Urea, N-[3-(2-chloro-3,5-dimethoxyphenyl)-7-[[4-[2-(diethylamino)ethoxy]phenyl]amino]-3,4-dihydropyrimido[4,5-d]pyrimidin-2-yl]-N'-ethyl- (9CI) (CA INDEX NAME)



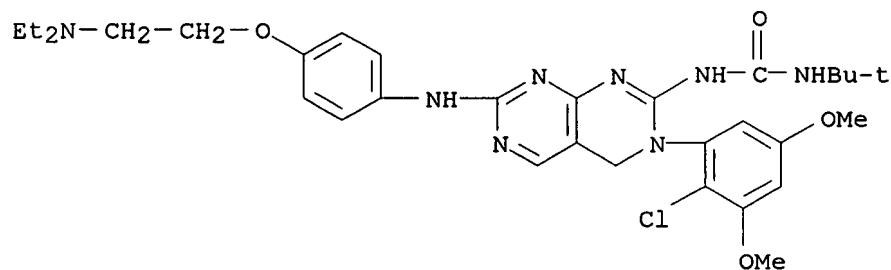
RN 251370-43-1 CAPLUS

CN Urea, N-[7-[[4-[2-(diethylamino)ethoxy]phenyl]amino]-3-(3,5-dimethoxyphenyl)-3,4-dihydropyrimido[4,5-d]pyrimidin-2-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



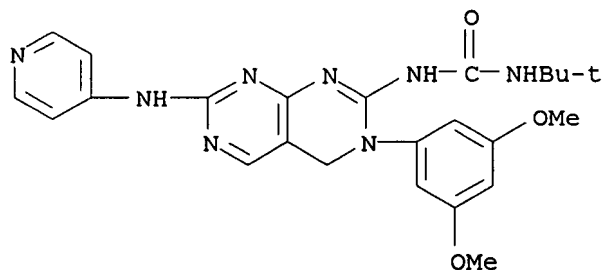
RN 251370-44-2 CAPLUS

CN Urea, N-[3-(2-chloro-3,5-dimethoxyphenyl)-7-[[4-[2-(diethylamino)ethoxy]phenyl]amino]-3,4-dihydropyrimido[4,5-d]pyrimidin-2-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



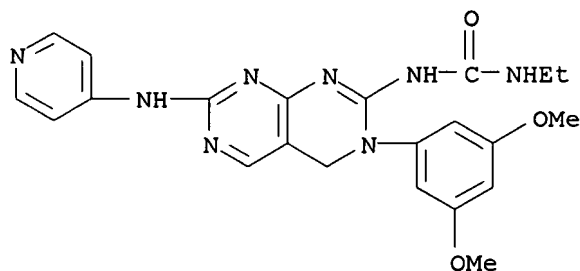
RN 251370-45-3 CAPLUS

CN Urea, N-[3-(3,5-dimethoxyphenyl)-3,4-dihydro-7-(4-pyridinylamino)pyrimido[4,5-d]pyrimidin-2-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



RN 251370-46-4 CAPLUS

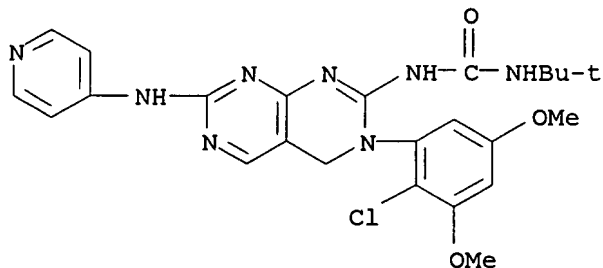
CN Urea, N-[3-(3,5-dimethoxyphenyl)-3,4-dihydro-7-(4-pyridinylamino)pyrimido[4,5-d]pyrimidin-2-yl]-N'-ethyl- (9CI) (CA INDEX NAME)



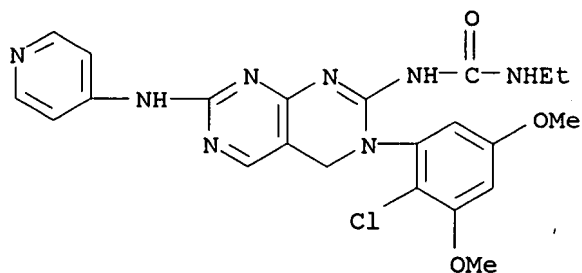
RN 251370-47-5 CAPLUS

CN Urea, N-[3-(2-chloro-3,5-dimethoxyphenyl)-3,4-dihydro-7-(4-

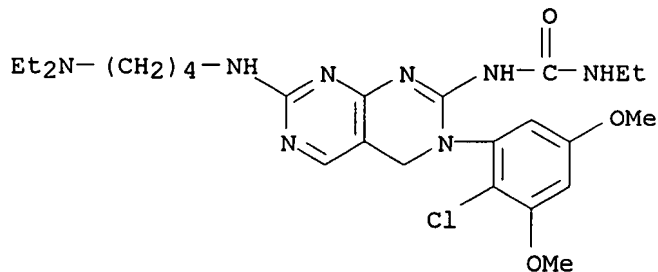
pyridinylamino)pyrimido[4,5-d]pyrimidin-2-yl]-N'-(1,1-dimethylethyl)-  
(9CI) (CA INDEX NAME)



RN 251370-48-6 CAPLUS  
CN Urea, N-[3-(2-chloro-3,5-dimethoxyphenyl)-3,4-dihydro-7-(4-pyridinylamino)pyrimido[4,5-d]pyrimidin-2-yl]-N'-ethyl- (9CI) (CA INDEX NAME)

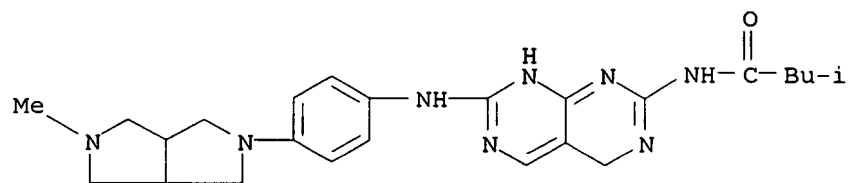


RN 251370-49-7 CAPLUS  
CN Urea,  
N-[3-(2-chloro-3,5-dimethoxyphenyl)-7-[[4-(diethylamino)butyl]amino]-3,4-dihydropyrimido[4,5-d]pyrimidin-2-yl]-N'-ethyl- (9CI) (CA INDEX NAME)



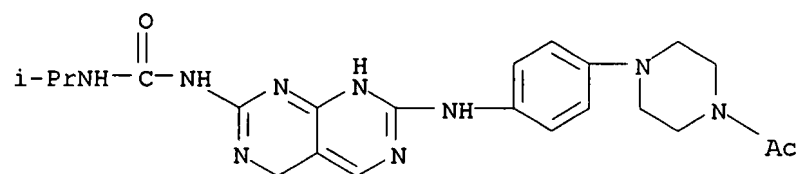
RN 251370-50-0 CAPLUS  
CN Butanamide, N-[7-[[4-(hexahydro-5-methylpyrrolo[3,4-c]pyrrol-2(1H)-yl)phenyl]amino]-1,4-dihydropyrimido[4,5-d]pyrimidin-2-yl]-3-methyl- (9CI)

(CA INDEX NAME)



RN 251370-51-1 CAPLUS

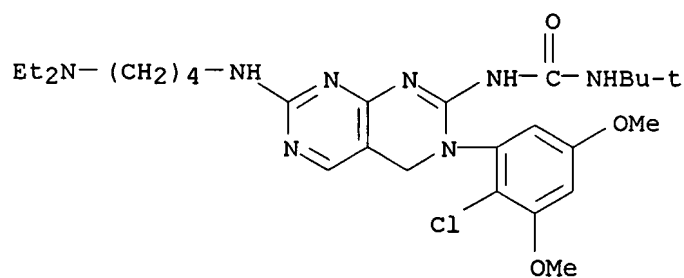
CN Piperazine, 1-acetyl-4-[4-[[[1,5-dihydro-7-[[[(1-methylethyl)amino]carbonyl]amino]pyrimido[4,5-d]pyrimidin-2-yl]amino]phenyl]- (9CI) (CA INDEX NAME)



RN 251370-52-2 CAPLUS

CN Urea,

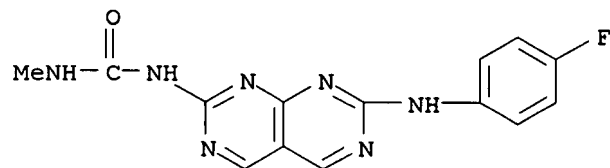
N-[3-(2-chloro-3,5-dimethoxyphenyl)-7-[[4-(diethylamino)butyl]amino]-3,4-dihydropyrimido[4,5-d]pyrimidin-2-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



RN 251370-53-3 CAPLUS

CN Urea,

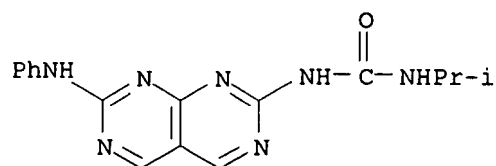
N-[7-[(4-fluorophenyl)amino]pyrimido[4,5-d]pyrimidin-2-yl]-N'-methyl- (9CI) (CA INDEX NAME)



RN 251370-54-4 CAPLUS

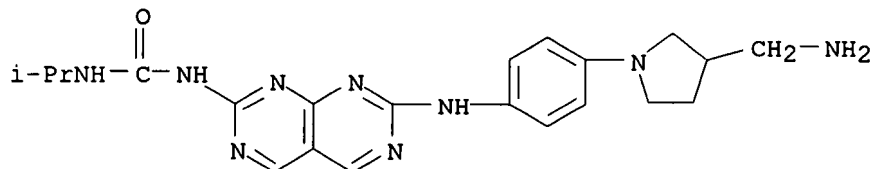
CN Urea,

N-(1-methylethyl)-N'-[7-(phenylamino)pyrimido[4,5-d]pyrimidin-2-yl]-  
(9CI) (CA INDEX NAME)



RN 251370-55-5 CAPLUS

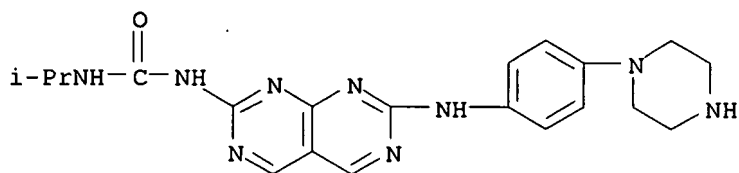
CN Urea, N-[7-[[4-[3-(aminomethyl)-1-pyrrolidinyl]phenyl]amino]pyrimido[4,5-  
d]pyrimidin-2-yl]-N'-(1-methylethyl)- (9CI) (CA INDEX NAME)



RN 251370-56-6 CAPLUS

CN Urea,

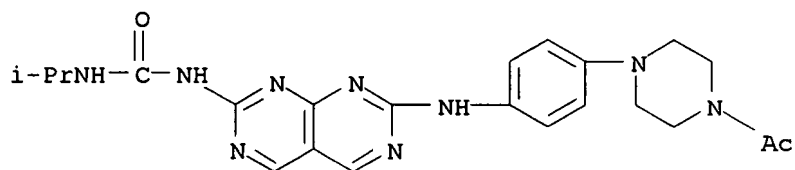
N-(1-methylethyl)-N'-[7-[[4-(1-piperazinyl)phenyl]amino]pyrimido[4,5-  
d]pyrimidin-2-yl]- (9CI) (CA INDEX NAME)



RN 251370-57-7 CAPLUS

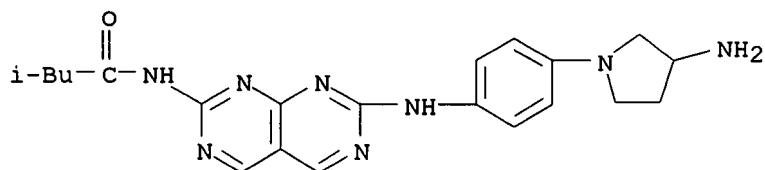
CN Piperazine,

1-acetyl-4-[4-[[7-[[[(1-methylethyl)amino]carbonyl]amino]pyrim  
ido[4,5-d]pyrimidin-2-yl]amino]phenyl]- (9CI) (CA INDEX NAME)



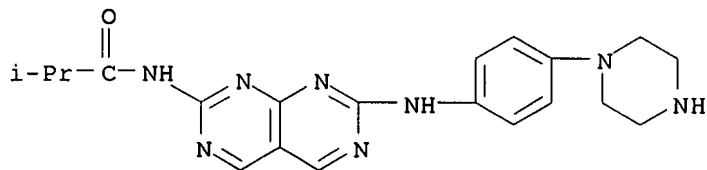
RN 251370-58-8 CAPLUS

CN Butanamide, N-[7-[[4-(3-amino-1-pyrrolidinyl)phenyl]amino]pyrimido[4,5-d]pyrimidin-2-yl]-3-methyl- (9CI) (CA INDEX NAME)



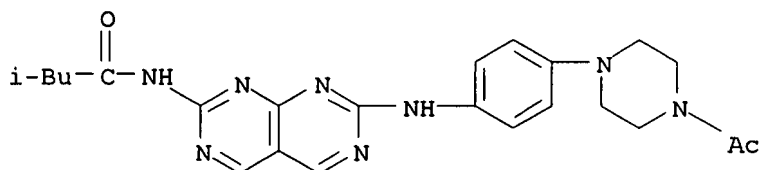
RN 251370-59-9 CAPLUS

CN Propanamide, 2-methyl-N-[7-[[4-(1-piperazinyl)phenyl]amino]pyrimido[4,5-d]pyrimidin-2-yl]- (9CI) (CA INDEX NAME)



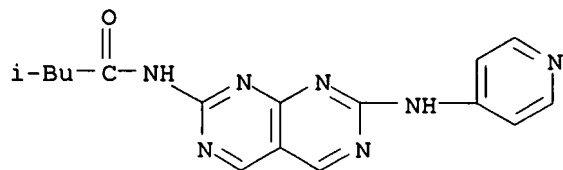
RN 251370-60-2 CAPLUS

CN Butanamide, N-[7-[[4-(4-acetyl-1-piperazinyl)phenyl]amino]pyrimido[4,5-d]pyrimidin-2-yl]-3-methyl- (9CI) (CA INDEX NAME)



RN 251370-61-3 CAPLUS

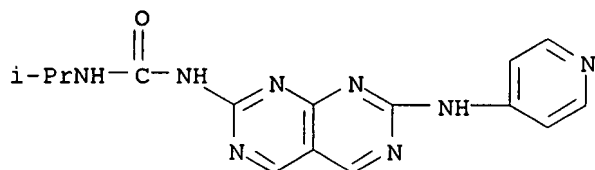
CN Butanamide, 3-methyl-N-[7-(4-pyridinylamino)pyrimido[4,5-d]pyrimidin-2-yl]- (9CI) (CA INDEX NAME)



RN 251370-62-4 CAPLUS

CN Urea,

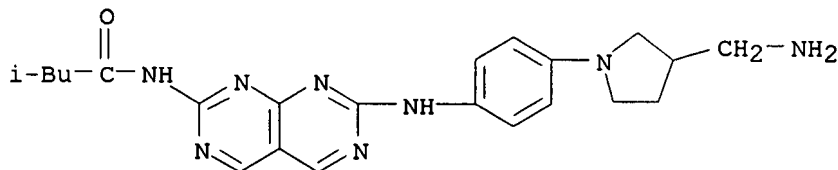
N-(1-methylethyl)-N'-[7-(4-pyridinylamino)pyrimido[4,5-d]pyrimidin-2-yl]- (9CI) (CA INDEX NAME)



RN 251370-63-5 CAPLUS

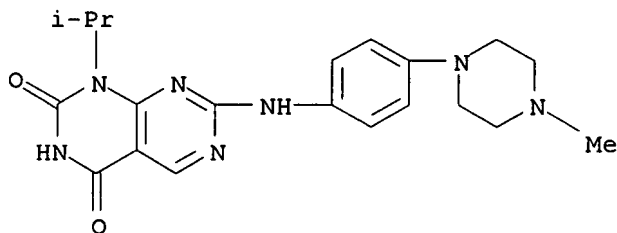
CN Butanamide,

N-[7-[[4-[3-(aminomethyl)-1-pyrrolidinyl]phenyl]amino]pyrimido[4,5-d]pyrimidin-2-yl]-3-methyl- (9CI) (CA INDEX NAME)



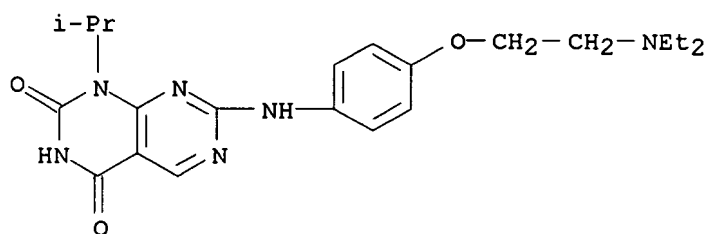
RN 251370-64-6 CAPLUS

CN Pyrimido[4,5-d]pyrimidine-2,4(1H,3H)-dione, 1-(1-methylethyl)-7-[[4-(4-methyl-1-piperazinyl)phenyl]amino]- (9CI) (CA INDEX NAME)



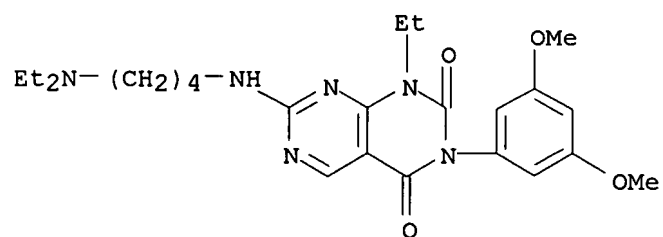
RN 251370-65-7 CAPLUS

CN Pyrimido[4,5-d]pyrimidine-2,4(1H,3H)-dione, 7-[[4-[2-(diethylamino)ethoxy]phenyl]amino]-1-(1-methylethyl)- (9CI) (CA INDEX NAME)



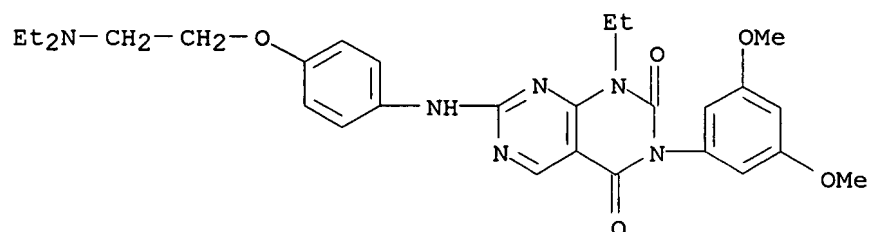
RN 251370-66-8 CAPLUS

CN Pyrimido[4,5-d]pyrimidine-2,4(1H,3H)-dione, 7-[[4-(diethylamino)butyl]amino]-3-(3,5-dimethoxyphenyl)-1-ethyl- (9CI) (CA INDEX NAME)



RN 251370-67-9 CAPLUS

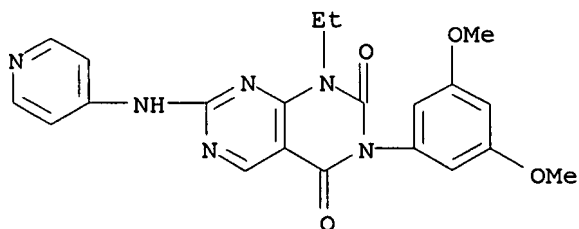
CN Pyrimido[4,5-d]pyrimidine-2,4(1H,3H)-dione, 7-[[4-[2-(diethylamino)ethoxy]phenyl]amino]-3-(3,5-dimethoxyphenyl)-1-ethyl- (9CI) (CA INDEX NAME)



RN 251370-68-0 CAPLUS

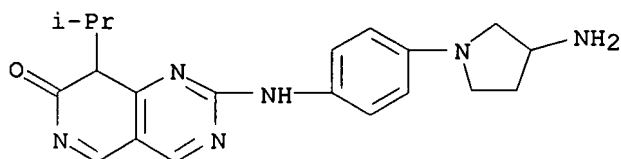
CN Pyrimido[4,5-d]pyrimidine-2,4(1H,3H)-dione, 3-(3,5-dimethoxyphenyl)-1-ethyl-7-(4-pyridinylamino)- (9CI) (CA INDEX NAME)





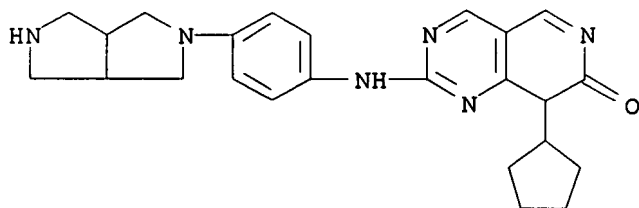
RN 251370-69-1 CAPLUS

CN Pyrido[4,3-d]pyrimidin-7(8H)-one, 2-[[4-(3-amino-1-pyrrolidinyl)phenyl]amino]-8-(1-methylethyl)- (9CI) (CA INDEX NAME)



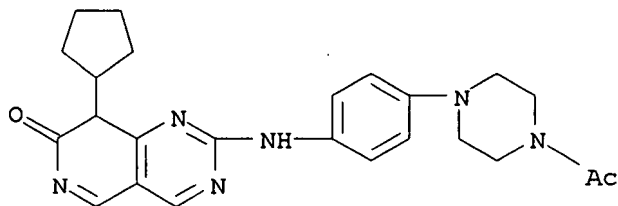
RN 251370-70-4 CAPLUS

CN Pyrido[4,3-d]pyrimidin-7(8H)-one, 8-cyclopentyl-2-[[4-(hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)phenyl]amino]- (9CI) (CA INDEX NAME)



RN 251370-71-5 CAPLUS

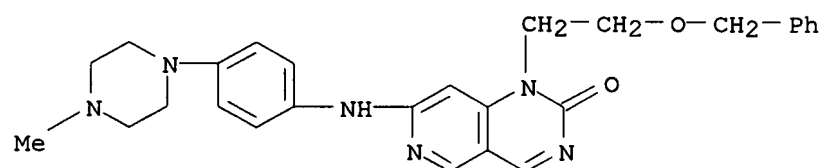
CN Piperazine, 1-acetyl-4-[4-[(8-cyclopentyl-7,8-dihydro-7-oxopyrido[4,3-d]pyrimidin-2-yl)amino]phenyl]- (9CI) (CA INDEX NAME)



RN 251370-74-8 CAPLUS

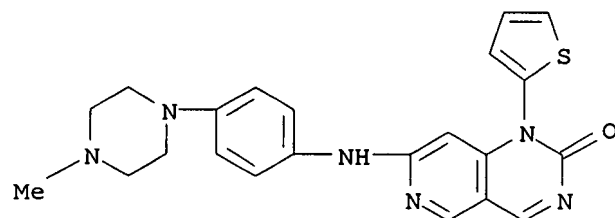
CN Pyrido[4,3-d]pyrimidin-2(1H)-one, 7-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-1-[2-(phenylmethoxy)ethyl]- (9CI) (CA INDEX NAME)

NAME)



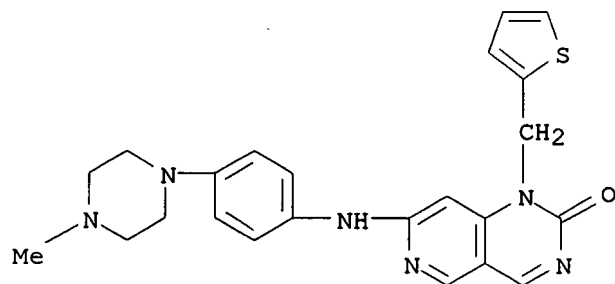
RN 251370-75-9 CAPLUS

CN Pyrido[4,3-d]pyrimidin-2(1H)-one, 7-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-1-(2-thienyl)- (9CI) (CA INDEX NAME)



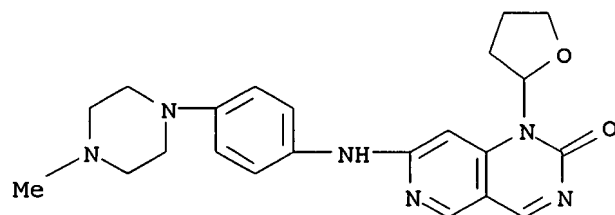
RN 251370-76-0 CAPLUS

CN Pyrido[4,3-d]pyrimidin-2(1H)-one, 7-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-1-(2-thienylmethyl)- (9CI) (CA INDEX NAME)



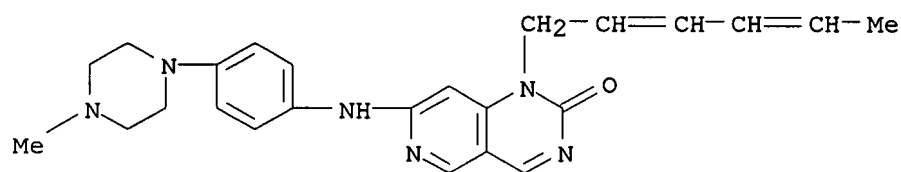
RN 251370-77-1 CAPLUS

CN Pyrido[4,3-d]pyrimidin-2(1H)-one, 7-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-1-(tetrahydro-2-furanyl)- (9CI) (CA INDEX NAME)



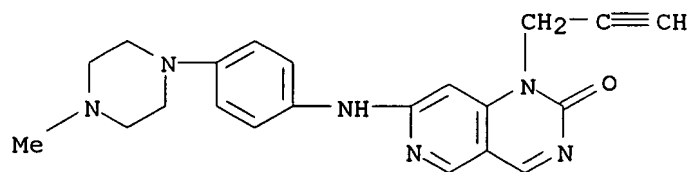
RN 251370-78-2 CAPLUS

CN Pyrido[4,3-d]pyrimidin-2(1H)-one, 1-(2,4-hexadienyl)-7-[[4-(4-methyl-1-piperazinyl)phenyl]amino]- (9CI) (CA INDEX NAME)



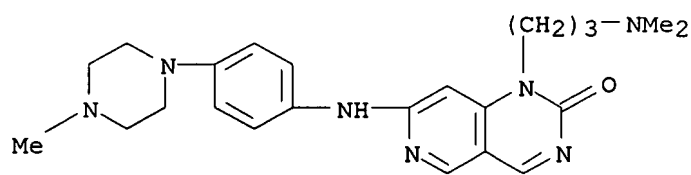
RN 251370-79-3 CAPLUS

CN Pyrido[4,3-d]pyrimidin-2(1H)-one, 7-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-1-(2-propynyl)- (9CI) (CA INDEX NAME)



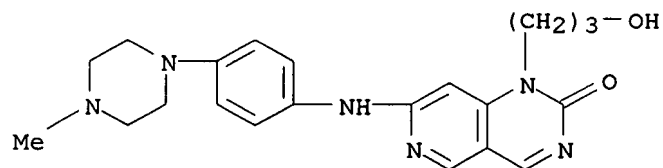
RN 251370-80-6 CAPLUS

CN Pyrido[4,3-d]pyrimidin-2(1H)-one, 1-[3-(dimethylamino)propyl]-7-[[4-(4-methyl-1-piperazinyl)phenyl]amino]- (9CI) (CA INDEX NAME)



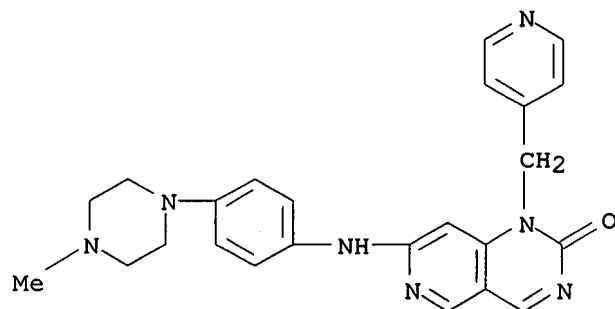
RN 251370-81-7 CAPLUS

CN Pyrido[4,3-d]pyrimidin-2(1H)-one, 1-(3-hydroxypropyl)-7-[[4-(4-methyl-1-piperazinyl)phenyl]amino]- (9CI) (CA INDEX NAME)



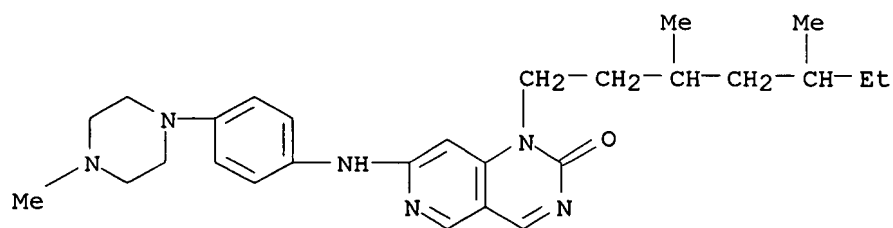
RN 251370-82-8 CAPLUS

CN Pyrido[4,3-d]pyrimidin-2(1H)-one, 7-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-1-(4-pyridinylmethyl)- (9CI) (CA INDEX NAME)



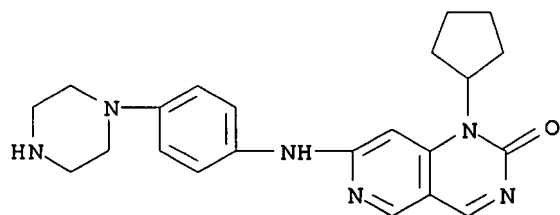
RN 251370-83-9 CAPLUS

CN Pyrido[4,3-d]pyrimidin-2(1H)-one, 1-(3,5-dimethylheptyl)-7-[[4-(4-methyl-1-piperazinyl)phenyl]amino]- (9CI) (CA INDEX NAME)



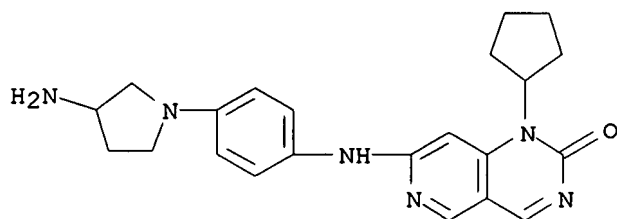
RN 251370-84-0 CAPLUS

CN Pyrido[4,3-d]pyrimidin-2(1H)-one, 1-cyclopentyl-7-[[4-(1-piperazinyl)phenyl]amino]- (9CI) (CA INDEX NAME)



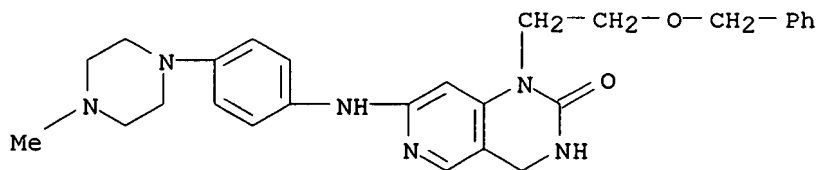
RN 251370-85-1 CAPLUS

CN Pyrido[4,3-d]pyrimidin-2(1H)-one, 7-[[4-(3-amino-1-pyrrolidinyl)phenyl]amino]-1-cyclopentyl- (9CI) (CA INDEX NAME)



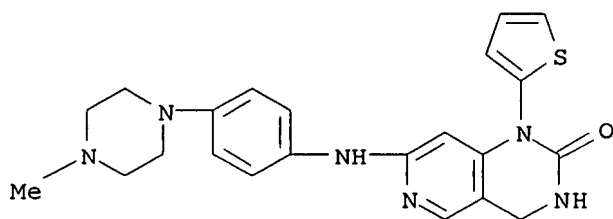
RN 251370-86-2 CAPLUS

CN Pyrido[4,3-d]pyrimidin-2(1H)-one, 3,4-dihydro-7-[[4-(4-amino-1-piperazinyl)phenyl]amino]-1-[2-(phenylmethoxy)ethyl]- (9CI) (CA INDEX NAME)



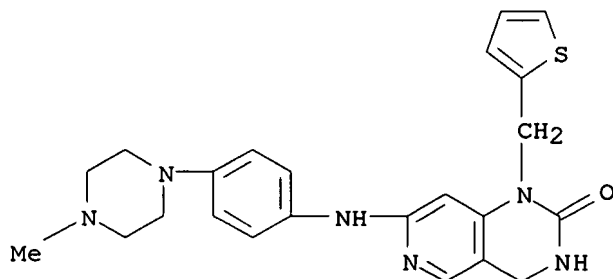
RN 251370-87-3 CAPLUS

CN Pyrido[4,3-d]pyrimidin-2(1H)-one, 3,4-dihydro-7-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-1-(2-thienyl)- (9CI) (CA INDEX NAME)



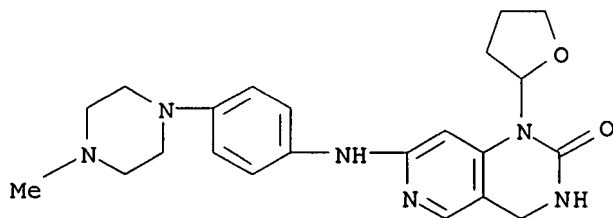
RN 251370-88-4 CAPLUS

CN Pyrido[4,3-d]pyrimidin-2(1H)-one, 3,4-dihydro-7-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-1-(2-thienylmethyl)- (9CI) (CA INDEX NAME)



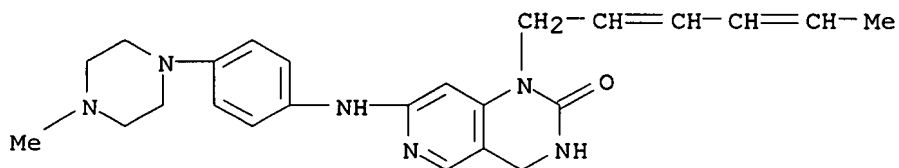
RN 251370-89-5 CAPLUS

CN Pyrido[4,3-d]pyrimidin-2(1H)-one, 3,4-dihydro-7-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-1-(tetrahydro-2-furanyl)- (9CI) (CA INDEX NAME)



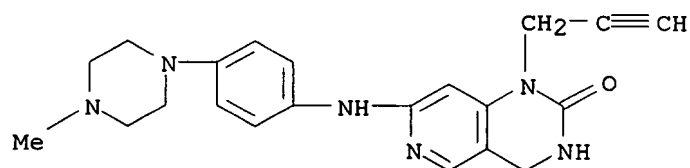
RN 251370-90-8 CAPLUS

CN Pyrido[4,3-d]pyrimidin-2(1H)-one, 1-(2,4-hexadienyl)-3,4-dihydro-7-[[4-(4-methyl-1-piperazinyl)phenyl]amino]- (9CI) (CA INDEX NAME)



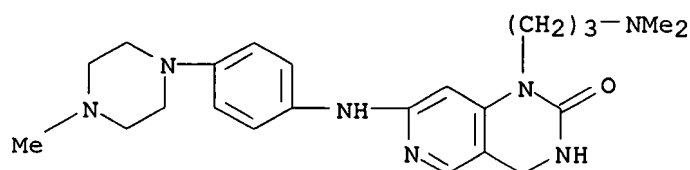
RN 251370-91-9 CAPLUS

CN Pyrido[4,3-d]pyrimidin-2(1H)-one, 3,4-dihydro-7-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-1-(2-propynyl)- (9CI) (CA INDEX NAME)



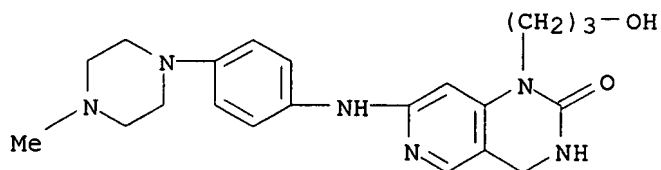
RN 251370-92-0 CAPLUS

CN Pyrido[4,3-d]pyrimidin-2(1H)-one,  
1-[3-(dimethylamino)propyl]-3,4-dihydro-  
7-[[4-(4-methyl-1-piperazinyl)phenyl]amino]- (9CI) (CA INDEX NAME)



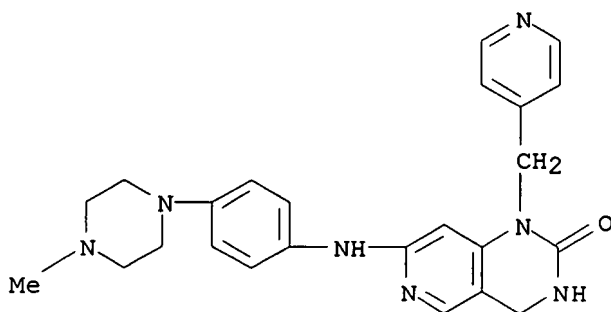
RN 251370-94-2 CAPLUS

CN Pyrido[4,3-d]pyrimidin-2(1H)-one,  
3,4-dihydro-1-(3-hydroxypropyl)-7-[[4-(4-  
methyl-1-piperazinyl)phenyl]amino]- (9CI) (CA INDEX NAME)



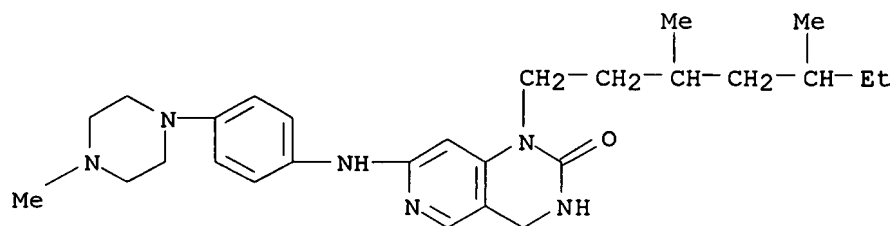
RN 251370-95-3 CAPLUS

CN Pyrido[4,3-d]pyrimidin-2(1H)-one, 3,4-dihydro-7-[[4-(4-methyl-1-  
piperazinyl)phenyl]amino]-1-(4-pyridinylmethyl)- (9CI) (CA INDEX NAME)

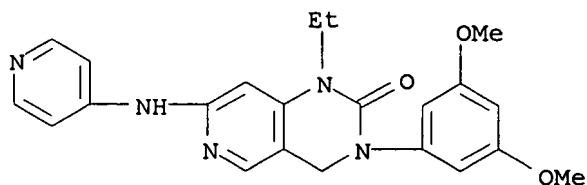


RN 251370-96-4 CAPLUS

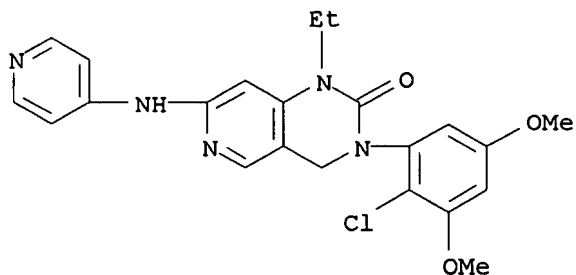
CN Pyrido[4,3-d]pyrimidin-2(1H)-one,  
1-(3,5-dimethylheptyl)-3,4-dihydro-7-[[4-(4-methyl-1-piperazinyl)phenyl]amino]- (9CI) (CA INDEX NAME)



RN 251370-97-5 CAPLUS  
CN Pyrido[4,3-d]pyrimidin-2(1H)-one, 3-(3,5-dimethoxyphenyl)-1-ethyl-3,4-dihydro-7-(4-pyridinylamino)- (9CI) (CA INDEX NAME)

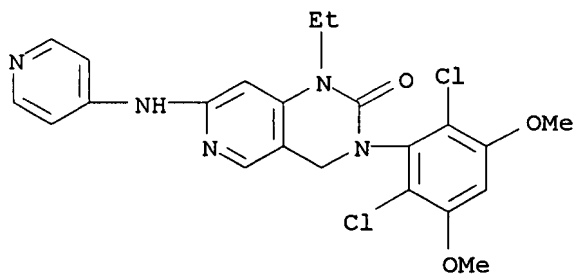


RN 251370-98-6 CAPLUS  
CN Pyrido[4,3-d]pyrimidin-2(1H)-one,  
3-(2-chloro-3,5-dimethoxyphenyl)-1-ethyl-  
3,4-dihydro-7-(4-pyridinylamino)- (9CI) (CA INDEX NAME)

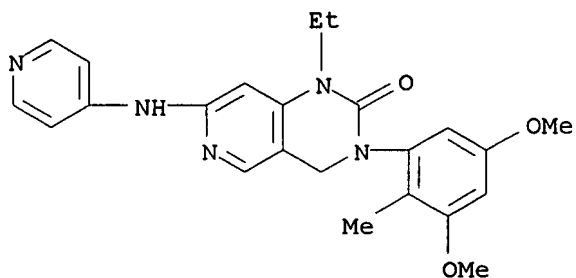


RN 251370-99-7 CAPLUS  
CN Pyrido[4,3-d]pyrimidin-2(1H)-one, 3-(2,6-dichloro-3,5-dimethoxyphenyl)-1-ethyl-3,4-dihydro-7-(4-pyridinylamino)- (9CI) (CA INDEX NAME)

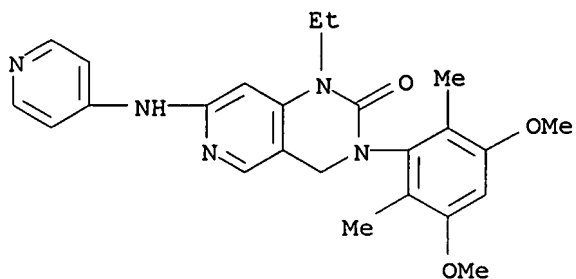




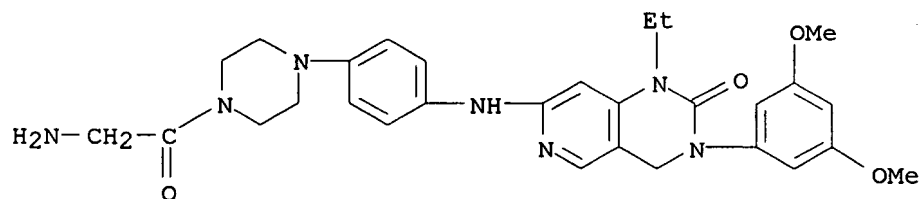
RN 251371-00-3 CAPLUS  
 CN Pyrido[4,3-d]pyrimidin-2(1H)-one,  
 3-(3,5-dimethoxy-2-methylphenyl)-1-ethyl-  
 3,4-dihydro-7-(4-pyridinylamino)- (9CI) (CA INDEX NAME)



RN 251371-01-4 CAPLUS  
 CN Pyrido[4,3-d]pyrimidin-2(1H)-one, 3-(3,5-dimethoxy-2,6-dimethylphenyl)-1-  
 ethyl-3,4-dihydro-7-(4-pyridinylamino)- (9CI) (CA INDEX NAME)

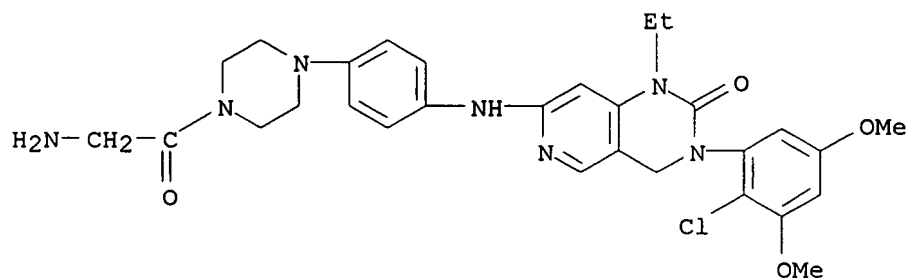


RN 251371-02-5 CAPLUS  
 CN Piperazine,  
 1-(aminoacetyl)-4-[4-[[3-(3,5-dimethoxyphenyl)-1-ethyl-1,2,3,4-  
 tetrahydro-2-oxopyrido[4,3-d]pyrimidin-7-yl]amino]phenyl]- (9CI) (CA  
 INDEX NAME)



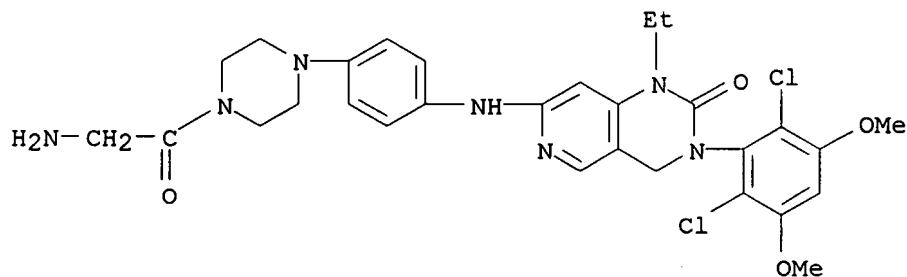
RN 251371-03-6 CAPLUS

CN Piperazine, 1-(aminoacetyl)-4-[4-[[3-(2-chloro-3,5-dimethoxyphenyl)-1-ethyl-1,2,3,4-tetrahydro-2-oxopyrido[4,3-d]pyrimidin-7-yl]amino]phenyl]-(9CI) (CA INDEX NAME)



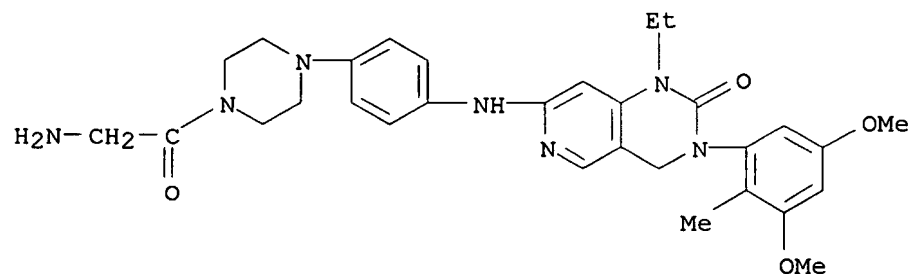
RN 251371-04-7 CAPLUS

CN Piperazine, 1-(aminoacetyl)-4-[4-[[3-(2,6-dichloro-3,5-dimethoxyphenyl)-1-ethyl-1,2,3,4-tetrahydro-2-oxopyrido[4,3-d]pyrimidin-7-yl]amino]phenyl]-(9CI) (CA INDEX NAME)



RN 251371-05-8 CAPLUS

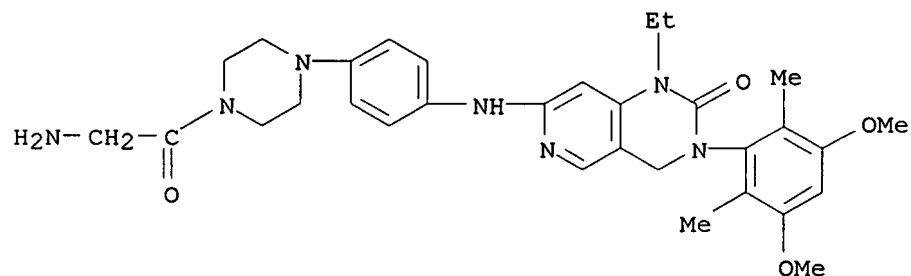
CN Piperazine, 1-(aminoacetyl)-4-[4-[[3-(3,5-dimethoxy-2-methylphenyl)-1-ethyl-1,2,3,4-tetrahydro-2-oxopyrido[4,3-d]pyrimidin-7-yl]amino]phenyl]-(9CI) (CA INDEX NAME)



RN 251371-06-9 CAPLUS

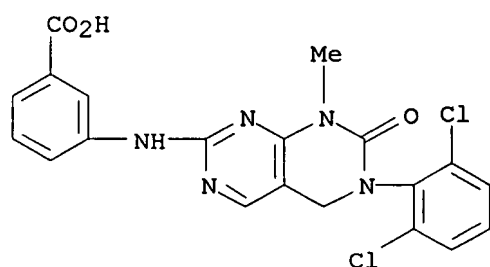
CN Piperazine,

1-(aminoacetyl)-4-[4-[[3-(3,5-dimethoxy-2,6-dimethylphenyl)-1-ethyl-1,2,3,4-tetrahydro-2-oxopyrido[4,3-d]pyrimidin-7-yl]amino]phenyl]-(9CI) (CA INDEX NAME)



RN 251371-07-0 CAPLUS

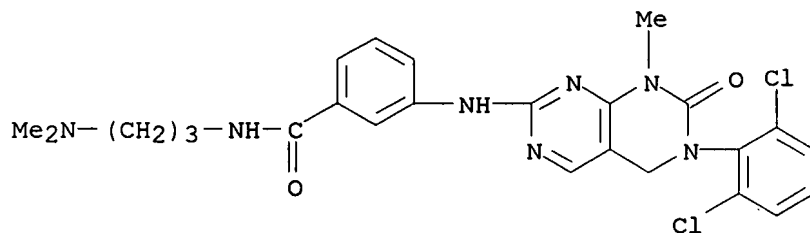
CN Benzoic acid, 3-[[6-(2,6-dichlorophenyl)-5,6,7,8-tetrahydro-8-methyl-7-oxopyrimido[4,5-d]pyrimidin-2-yl]amino]-(9CI) (CA INDEX NAME)



RN 251371-08-1 CAPLUS

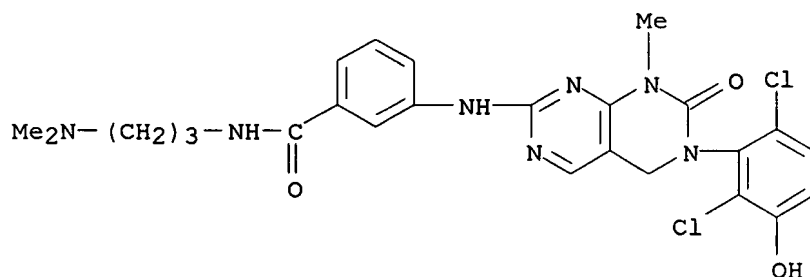
CN Benzamide, 3-[[6-(2,6-dichlorophenyl)-5,6,7,8-tetrahydro-8-methyl-7-oxopyrimido[4,5-d]pyrimidin-2-yl]amino]-N-[3-(dimethylamino)propyl]-(9CI)

(CA INDEX NAME)



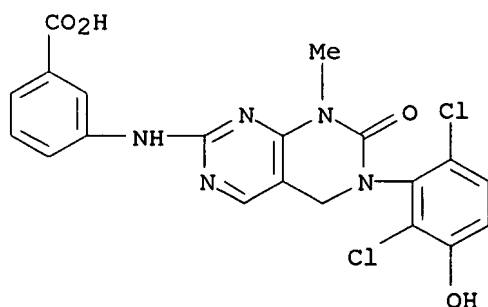
RN 251371-09-2 CAPLUS

CN Benzamide, 3-[[6-(2,6-dichloro-3-hydroxyphenyl)-5,6,7,8-tetrahydro-8-methyl-7-oxopyrimido[4,5-d]pyrimidin-2-yl]amino]-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



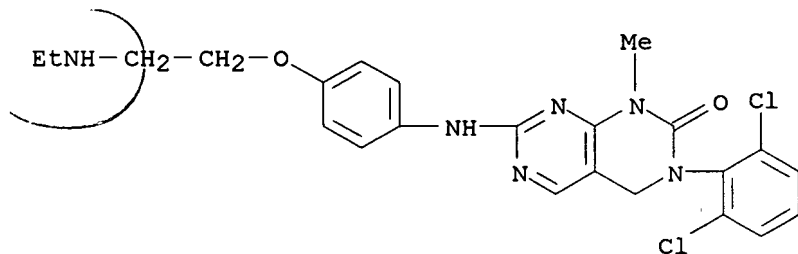
RN 251371-10-5 CAPLUS

CN Benzoic acid, 3-[[6-(2,6-dichloro-3-hydroxyphenyl)-5,6,7,8-tetrahydro-8-methyl-7-oxopyrimido[4,5-d]pyrimidin-2-yl]amino]- (9CI) (CA INDEX NAME)



RN 251371-11-6 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,6-dichlorophenyl)-7-[[4-[2-(ethylamino)ethoxy]phenyl]amino]-3,4-dihydro-1-methyl- (9CI) (CA INDEX NAME)



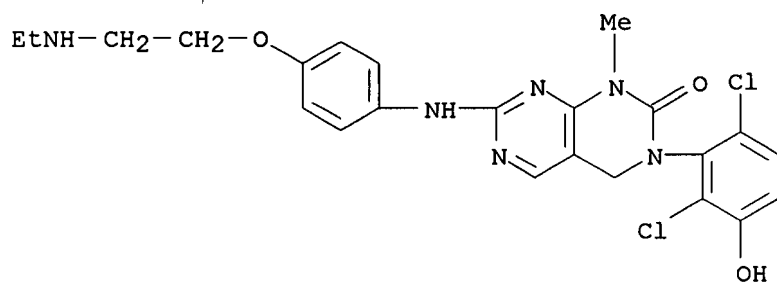
RN 251371-12-7 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one,

3-(2,6-dichloro-3-hydroxyphenyl)-7-[[4-(2-(ethylamino)ethoxy)phenyl]amino]-3,4-dihydro-1-methyl- (9CI) (CA

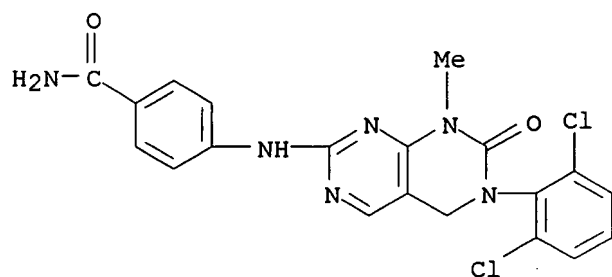
INDEX

NAME)



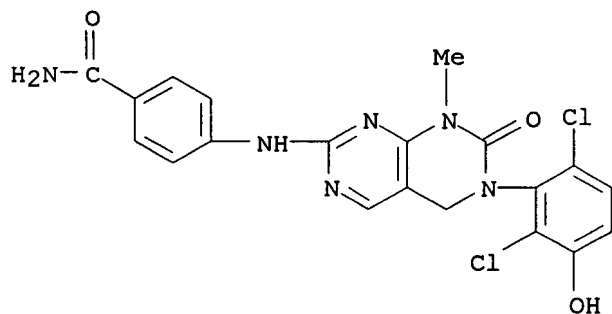
RN 251371-13-8 CAPLUS

CN Benzamide, 4-[[6-(2,6-dichlorophenyl)-5,6,7,8-tetrahydro-8-methyl-7-oxopyrimido[4,5-d]pyrimidin-2-yl]amino]- (9CI) (CA INDEX NAME)



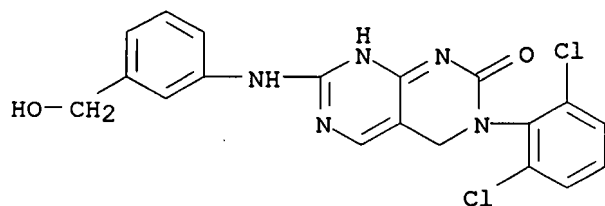
RN 251371-14-9 CAPLUS

CN Benzamide, 4-[[6-(2,6-dichloro-3-hydroxyphenyl)-5,6,7,8-tetrahydro-8-methyl-7-oxopyrimido[4,5-d]pyrimidin-2-yl]amino]- (9CI) (CA INDEX NAME)



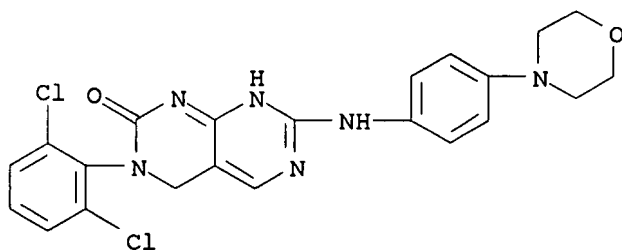
RN 251371-15-0 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,6-dichlorophenyl)-3,4-dihydro-7-[[3-(hydroxymethyl)phenyl]amino]- (9CI) (CA INDEX NAME)



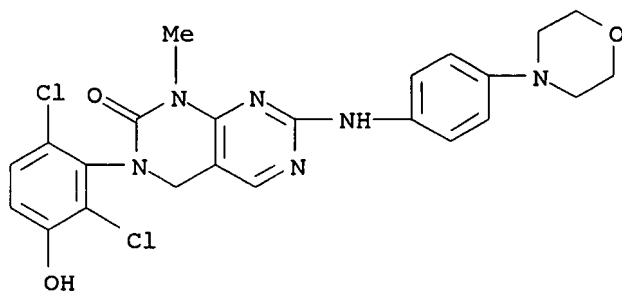
RN 251371-16-1 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,6-dichlorophenyl)-3,4-dihydro-7-[[4-(4-morpholinyl)phenyl]amino]- (9CI) (CA INDEX NAME)

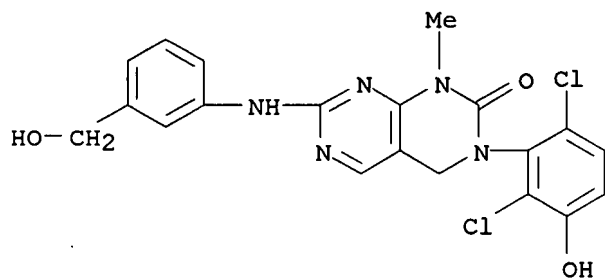


RN 251371-17-2 CAPLUS

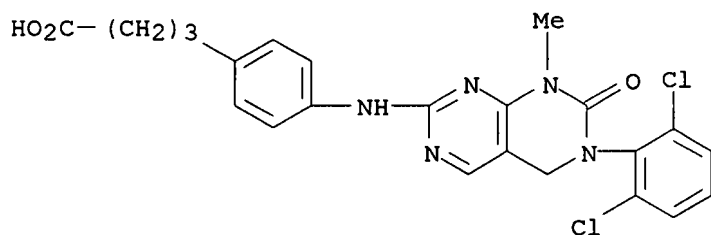
CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,6-dichloro-3-hydroxyphenyl)-3,4-dihydro-1-methyl-7-[[4-(4-morpholinyl)phenyl]amino]- (9CI) (CA INDEX NAME)



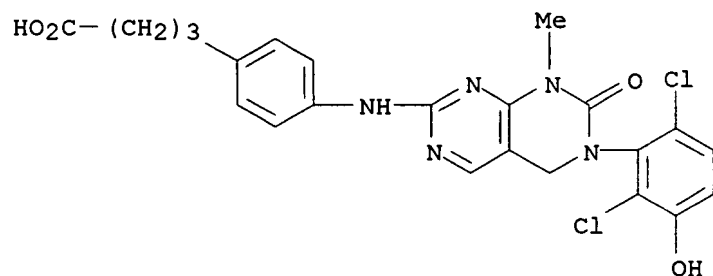
RN 251371-18-3 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2,6-dichloro-3-hydroxyphenyl)-3,4-dihydro-7-[[3-(hydroxymethyl)phenyl]amino]-1-methyl- (9CI) (CA INDEX NAME)



RN 251371-19-4 CAPLUS  
 CN Benzenebutanoic acid, 4-[[6-(2,6-dichlorophenyl)-5,6,7,8-tetrahydro-8-methyl-7-oxopyrimido[4,5-d]pyrimidin-2-yl]amino]- (9CI) (CA INDEX NAME)

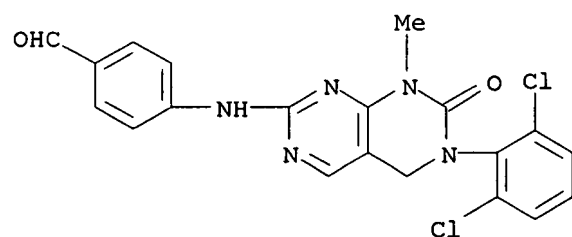


RN 251371-20-7 CAPLUS  
 CN Benzenebutanoic acid, 4-[[6-(2,6-dichloro-3-hydroxyphenyl)-5,6,7,8-tetrahydro-8-methyl-7-oxopyrimido[4,5-d]pyrimidin-2-yl]amino]- (9CI) (CA INDEX NAME)



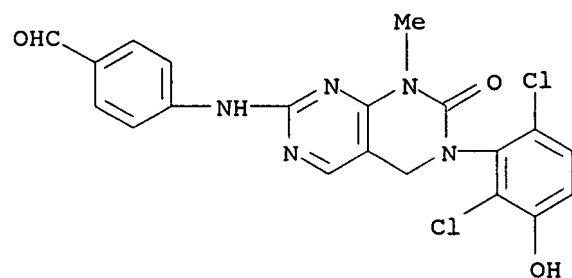
RN 251371-21-8 CAPLUS

CN Benzaldehyde, 4-[[6-(2,6-dichlorophenyl)-5,6,7,8-tetrahydro-8-methyl-7-oxopyrimido[4,5-d]pyrimidin-2-yl]amino]- (9CI) (CA INDEX NAME)



RN 251371-22-9 CAPLUS

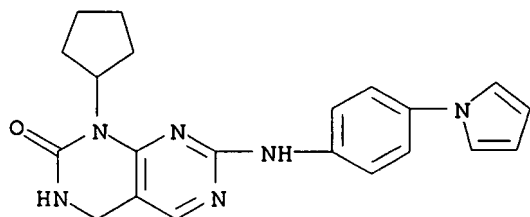
CN Benzaldehyde, 4-[[6-(2,6-dichloro-3-hydroxyphenyl)-5,6,7,8-tetrahydro-8-methyl-7-oxopyrimido[4,5-d]pyrimidin-2-yl]amino]- (9CI) (CA INDEX NAME)



RN 251371-36-5 CAPLUS

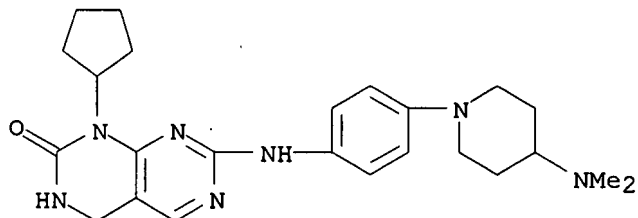
CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-cyclopentyl-3,4-dihydro-7-[[4-(1H-pyrrol-1-yl)phenyl]amino]- (9CI) (CA INDEX NAME)





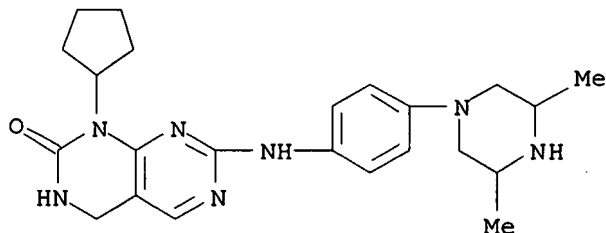
RN 251371-39-8 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-cyclopentyl-7-[[4-[(4-dimethylamino)-1-piperidinyl]phenyl]amino]-3,4-dihydro- (9CI) (CA INDEX NAME)



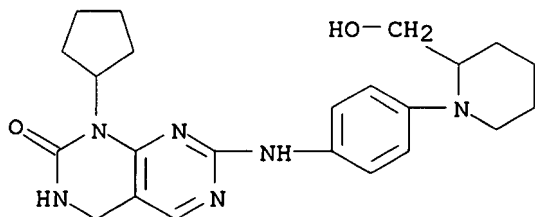
RN 251371-40-1 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-cyclopentyl-7-[[4-[(3,5-dimethyl-1-piperazinyl)phenyl]amino]-3,4-dihydro- (9CI) (CA INDEX NAME)

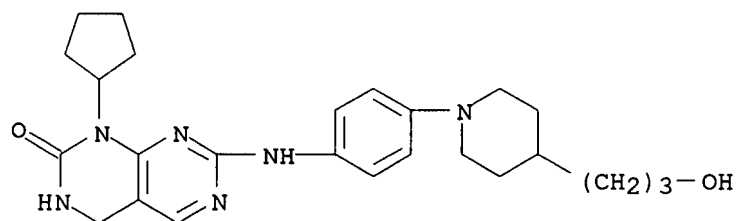


RN 251371-41-2 CAPLUS

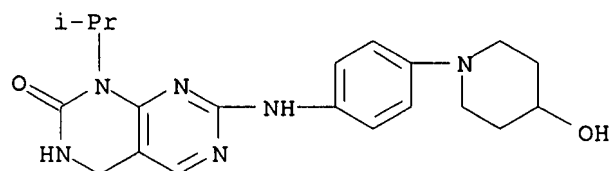
CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-cyclopentyl-3,4-dihydro-7-[[4-[(2-(hydroxymethyl)-1-piperidinyl)phenyl]amino]- (9CI) (CA INDEX NAME)



RN 251371-42-3 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one,  
 1-cyclopentyl-3,4-dihydro-7-[[4-[4-(3-  
 hydroxypropyl)-1-piperidiny]phenyl]amino]- (9CI) (CA INDEX NAME)



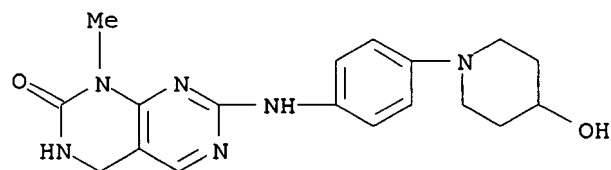
RN 251371-45-6 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3,4-dihydro-7-[[4-(4-hydroxy-1-  
 piperidiny]phenyl]amino]-1-(1-methylethyl)- (9CI) (CA INDEX NAME)



RN 251371-53-6 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3,4-dihydro-7-[[4-(4-hydroxy-1-  
 piperidiny]phenyl]amino]-1-methyl-, bis(trifluoroacetate) (salt) (9CI)  
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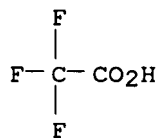
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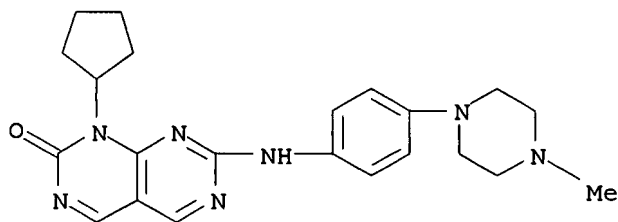
CM 2

CRN 76-05-1  
 CMF C2 H F3 O2



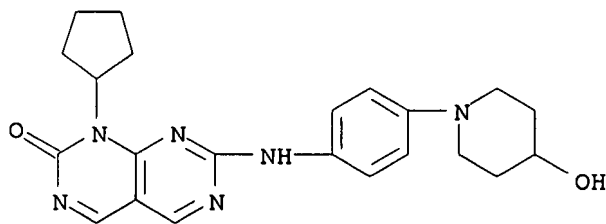
RN 251371-57-0 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-cyclopentyl-7-[[4-(4-methyl-1-piperazinyl)phenyl]amino]- (9CI) (CA INDEX NAME)



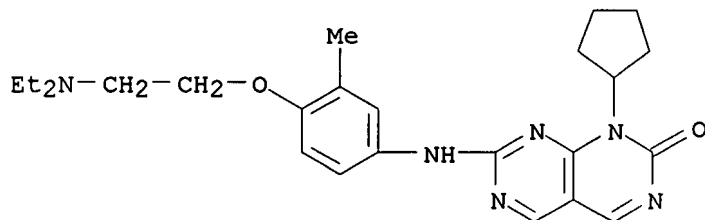
RN 251371-58-1 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-cyclopentyl-7-[[4-(4-hydroxy-1-piperidiny]phenyl]amino]- (9CI) (CA INDEX NAME)



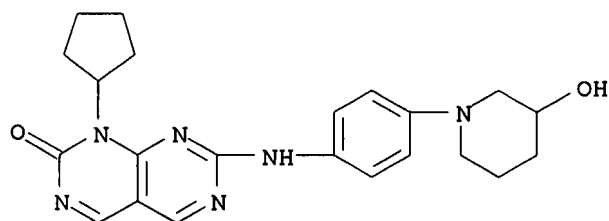
RN 251371-59-2 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-cyclopentyl-7-[[4-[2-(diethylamino)ethoxy]-3-methylphenyl]amino]- (9CI) (CA INDEX NAME)



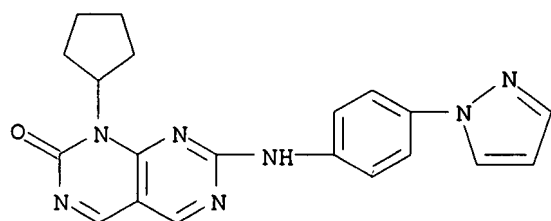
RN 251371-60-5 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-cyclopentyl-7-[[4-(3-hydroxy-1-piperidiny]phenyl]amino]- (9CI) (CA INDEX NAME)



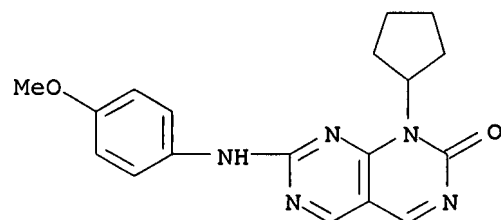
RN 251371-61-6 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-cyclopentyl-7-[[4-(1H-pyrazol-1-yl)phenyl]amino]- (9CI) (CA INDEX NAME)



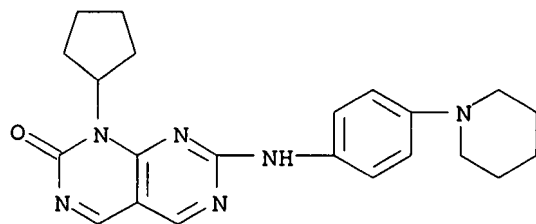
RN 251371-62-7 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-cyclopentyl-7-[(4-methoxyphenyl)amino]- (9CI) (CA INDEX NAME)



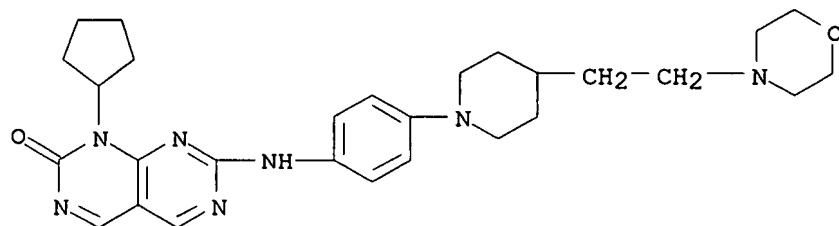
RN 251371-63-8 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-cyclopentyl-7-[[4-(1-piperidinyl)phenyl]amino]- (9CI) (CA INDEX NAME)



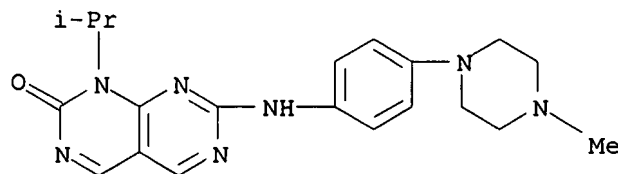
RN 251371-64-9 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-cyclopentyl-7-[[4-[4-[2-(4-morpholinyl)ethyl]-1-piperidinyl]phenyl]amino]- (9CI) (CA INDEX NAME)



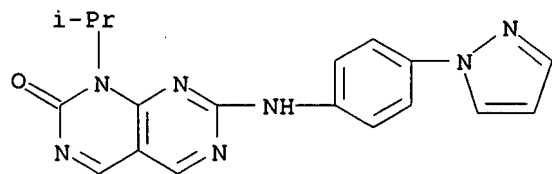
RN 251371-65-0 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-(1-methylethyl)-7-[[4-(4-methyl-1-piperazinyl)phenyl]amino]- (9CI) (CA INDEX NAME)



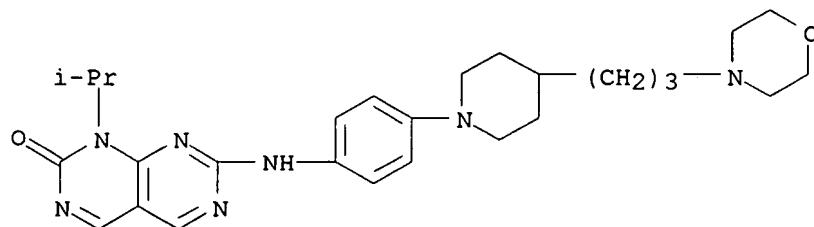
RN 251371-66-1 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-(1-methylethyl)-7-[[4-(1H-pyrazol-1-yl)phenyl]amino]- (9CI) (CA INDEX NAME)



RN 251371-67-2 CAPLUS

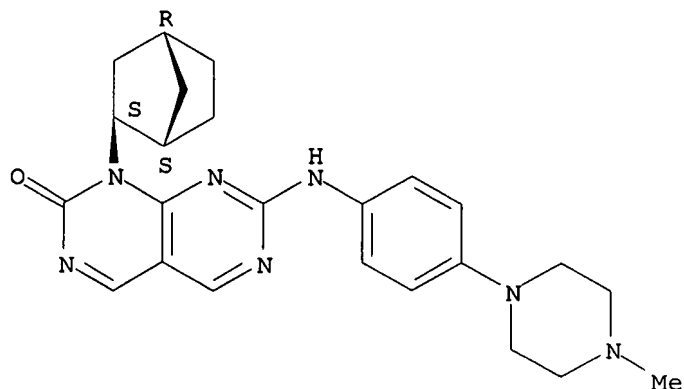
CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-(1-methylethyl)-7-[[4-[4-[3-(4-morpholinyl)propyl]-1-piperidinyl]phenyl]amino]- (9CI) (CA INDEX NAME)



RN 251371-70-7 CAPLUS

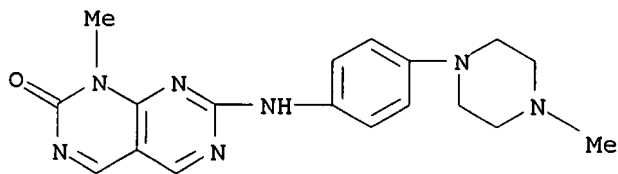
CN Pyrimido[4,5-d]pyrimidin-2(1H)-one,  
1-(1R,2R,4S)-bicyclo[2.2.1]hept-2-yl-7-  
[[4-(4-methyl-1-piperazinyl)phenyl]amino]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



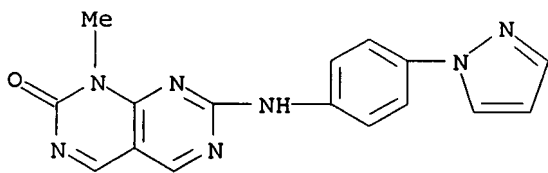
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CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-methyl-7-[[4-(4-methyl-1-piperazinyl)phenyl]amino]- (9CI) (CA INDEX NAME)



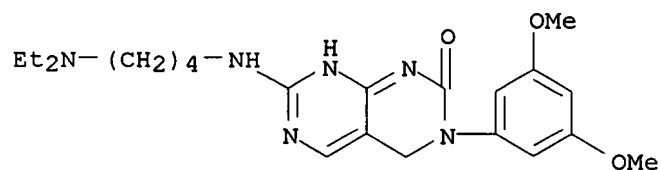
RN 251371-74-1 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-methyl-7-[[4-(1H-pyrazol-1-yl)phenyl]amino]- (9CI) (CA INDEX NAME)

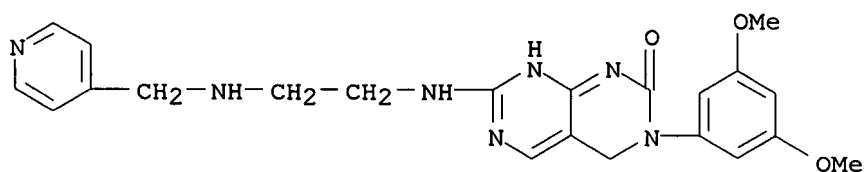


RN 251371-83-2 CAPLUS

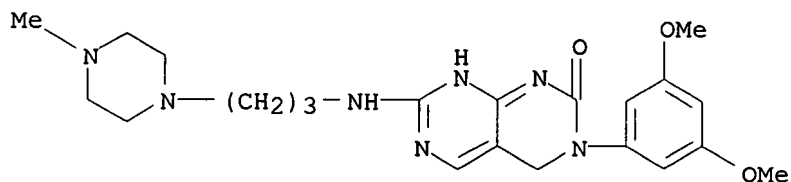
CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 7-[[4-(diethylamino)butyl]amino]-3-(3,5-dimethoxyphenyl)-3,4-dihydro- (9CI) (CA INDEX NAME)



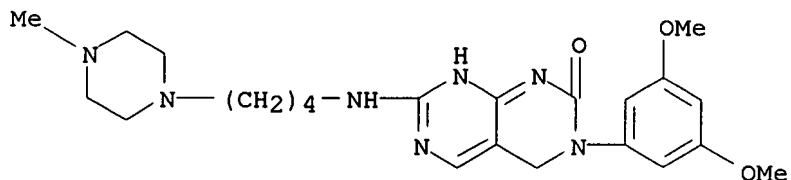
RN 251371-84-3 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one,  
 3-(3,5-dimethoxyphenyl)-3,4-dihydro-7-  
 [[2-[(4-pyridinylmethyl)amino]ethyl]amino]- (9CI) (CA INDEX NAME)



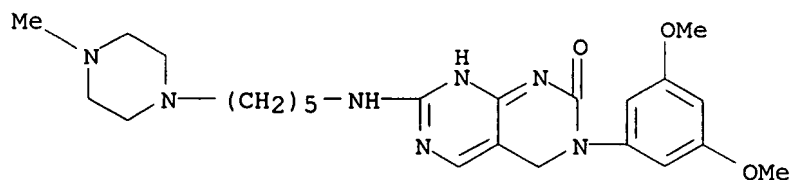
RN 251371-85-4 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one,  
 3-(3,5-dimethoxyphenyl)-3,4-dihydro-7-  
 [[3-(4-methyl-1-piperazinyl)propyl]amino]- (9CI) (CA INDEX NAME)



RN 251371-86-5 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one,  
 3-(3,5-dimethoxyphenyl)-3,4-dihydro-7-  
 [[4-(4-methyl-1-piperazinyl)butyl]amino]- (9CI) (CA INDEX NAME)

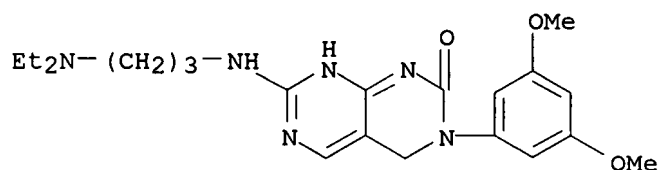


RN 251371-87-6 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one,  
 3-(3,5-dimethoxyphenyl)-3,4-dihydro-7-  
 [[5-(4-methyl-1-piperazinyl)pentyl]amino]- (9CI) (CA INDEX NAME)



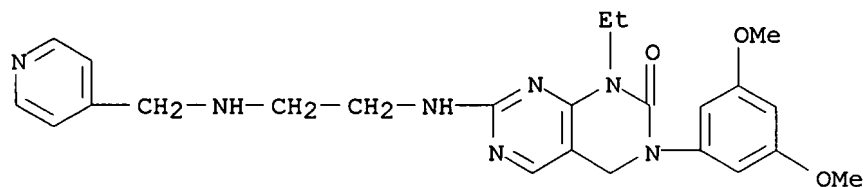
RN 251371-88-7 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 7-[[3-(diethylamino)propyl]amino]-3-(3,5-dimethoxyphenyl)-3,4-dihydro- (9CI) (CA INDEX NAME)



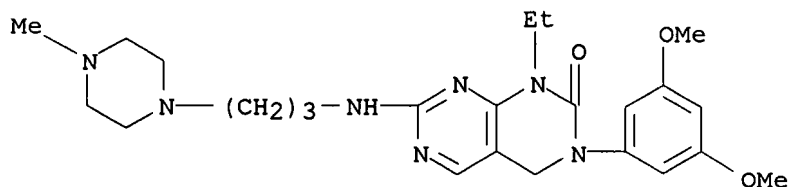
RN 251371-89-8 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(3,5-dimethoxyphenyl)-1-ethyl-3,4-dihydro-7-[[2-[(4-pyridinylmethyl)amino]ethyl]amino]- (9CI) (CA INDEX NAME)



RN 251371-90-1 CAPLUS

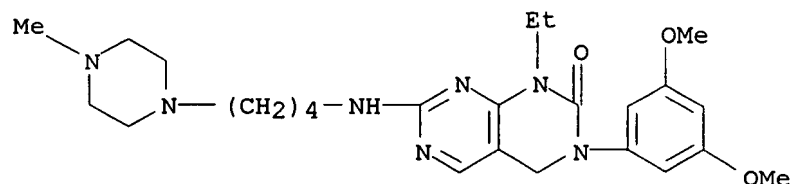
CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(3,5-dimethoxyphenyl)-1-ethyl-3,4-dihydro-7-[[3-(4-methyl-1-piperazinyl)propyl]amino]- (9CI) (CA INDEX NAME)



RN 251371-91-2 CAPLUS

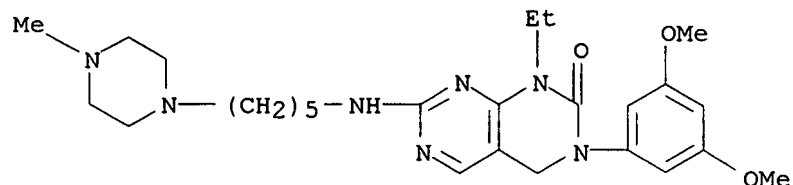
CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(3,5-dimethoxyphenyl)-1-ethyl-3,4-dihydro-7-[[4-(4-methyl-1-piperazinyl)butyl]amino]- (9CI) (CA INDEX NAME)





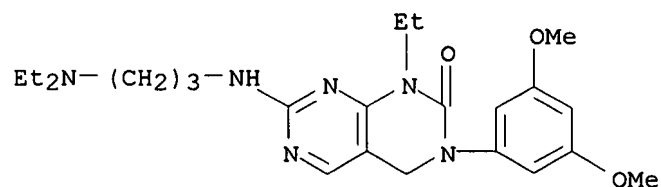
RN 251371-92-3 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(3,5-dimethoxyphenyl)-1-ethyl-3,4-dihydro-7-[[5-(4-methyl-1-piperazinyl)pentyl]amino]- (9CI) (CA INDEX NAME)



RN 251371-93-4 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 7-[[3-(diethylamino)propyl]amino]-3-(3,5-dimethoxyphenyl)-1-ethyl-3,4-dihydro- (9CI) (CA INDEX NAME)



IT 251371-23-0P 251371-24-1P 251371-25-2P

251371-26-3P 251371-27-4P 251371-28-5P

251371-29-6P 251371-30-9P 251371-79-6P

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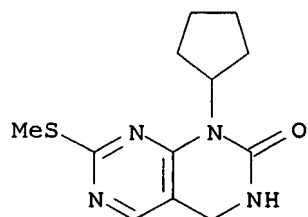
251371-96-7P 251371-97-8P 251371-98-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)

(prepn. of bicyclic pyrimidines and bicyclic 3,4-dihydropyrimidines as inhibitors of cellular proliferation)

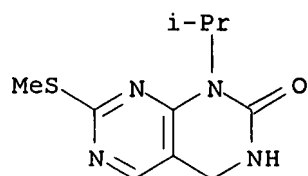
RN 251371-23-0 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-cyclopentyl-3,4-dihydro-7-(methylthio)- (9CI) (CA INDEX NAME)



RN 251371-24-1 CAPLUS

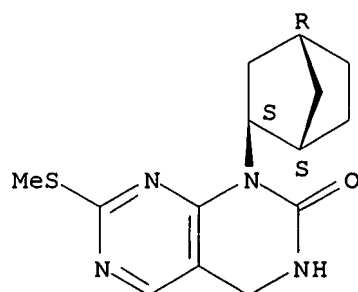
CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3,4-dihydro-1-(1-methylethyl)-7-(methylthio)- (9CI) (CA INDEX NAME)



RN 251371-25-2 CAPLUS

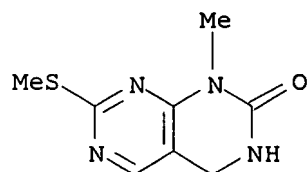
CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-(1R,2R,4S)-bicyclo[2.2.1]hept-2-yl-3,4-dihydro-7-(methylthio)-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



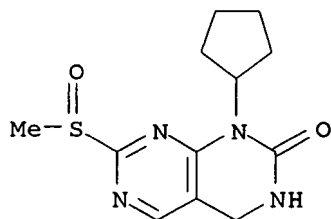
RN 251371-26-3 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3,4-dihydro-1-methyl-7-(methylthio)- (9CI) (CA INDEX NAME)



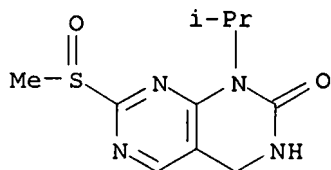
RN 251371-27-4 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-cyclopentyl-3,4-dihydro-7-(methylsulfinyl)- (9CI) (CA INDEX NAME)



RN 251371-28-5 CAPLUS

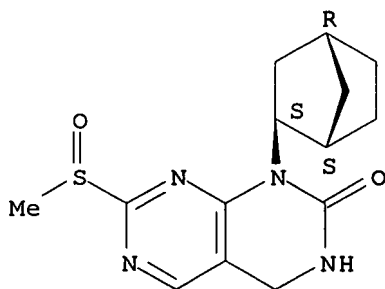
CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3,4-dihydro-1-(1-methylethyl)-7-(methylsulfinyl)- (9CI) (CA INDEX NAME)



RN 251371-29-6 CAPLUS

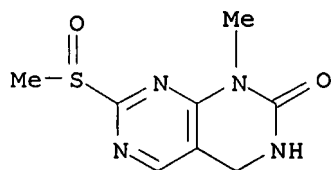
CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 1-(1R,2R,4S)-bicyclo[2.2.1]hept-2-yl-3,4-dihydro-7-(methylsulfinyl)-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

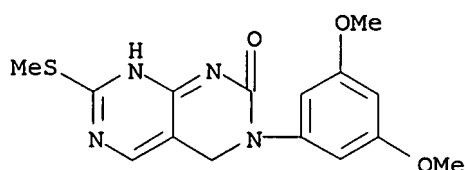


RN 251371-30-9 CAPLUS

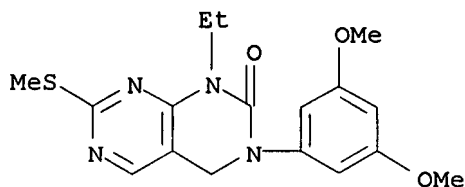
CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3,4-dihydro-1-methyl-7-(methylsulfinyl)- (9CI) (CA INDEX NAME)



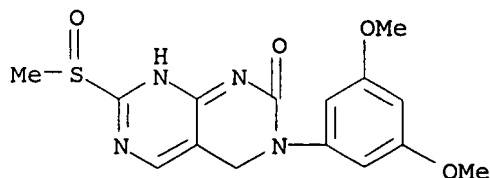
RN 251371-79-6 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one,  
 3-(3,5-dimethoxyphenyl)-3,4-dihydro-7-  
 (methylthio)- (9CI) (CA INDEX NAME)



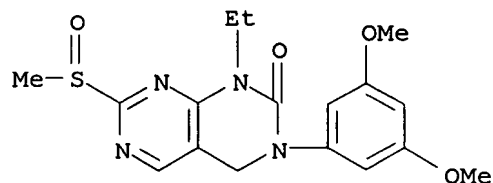
RN 251371-80-9 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(3,5-dimethoxyphenyl)-1-ethyl-3,4-  
 dihydro-7-(methylthio)- (9CI) (CA INDEX NAME)



RN 251371-81-0 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one,  
 3-(3,5-dimethoxyphenyl)-3,4-dihydro-7-  
 (methylsulfinyl)- (9CI) (CA INDEX NAME)

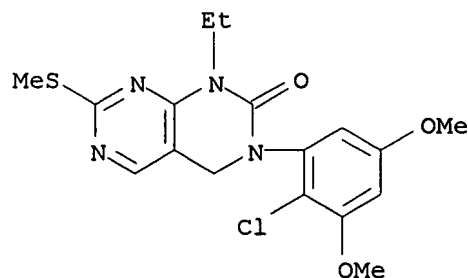


RN 251371-82-1 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(3,5-dimethoxyphenyl)-1-ethyl-3,4-  
 dihydro-7-(methylsulfinyl)- (9CI) (CA INDEX NAME)



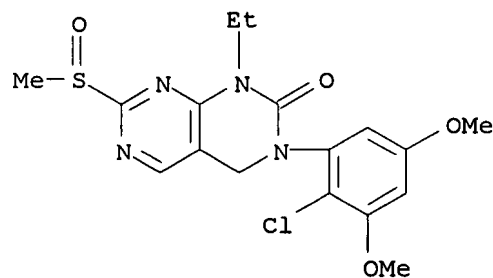
RN 251371-96-7 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2-chloro-3,5-dimethoxyphenyl)-1-ethyl-3,4-dihydro-7-(methylthio)- (9CI) (CA INDEX NAME)



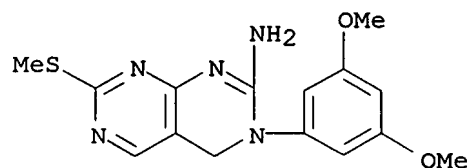
RN 251371-97-8 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3-(2-chloro-3,5-dimethoxyphenyl)-1-ethyl-3,4-dihydro-7-(methylsulfinyl)- (9CI) (CA INDEX NAME)



RN 251371-98-9 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2-amine, 3-(3,5-dimethoxyphenyl)-3,4-dihydro-7-(methylthio)- (9CI) (CA INDEX NAME)

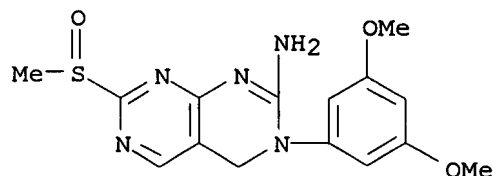


IT 251371-99-0P 251372-02-8P 251372-03-9P  
251372-04-0P 251372-05-1P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of bicyclic pyrimidines and bicyclic 3,4-dihydropyrimidines as  
inhibitors of cellular proliferation)

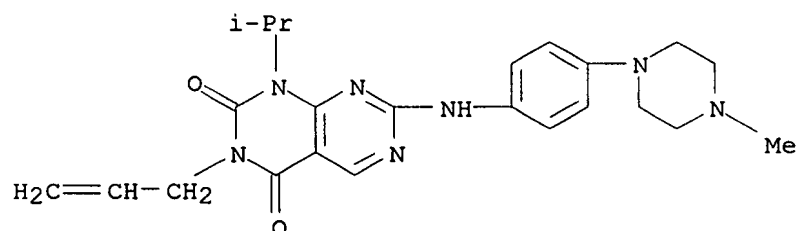
RN 251371-99-0 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2-amine, 3-(3,5-dimethoxyphenyl)-3,4-dihydro-7-(  
methylsulfinyl)- (9CI) (CA INDEX NAME)



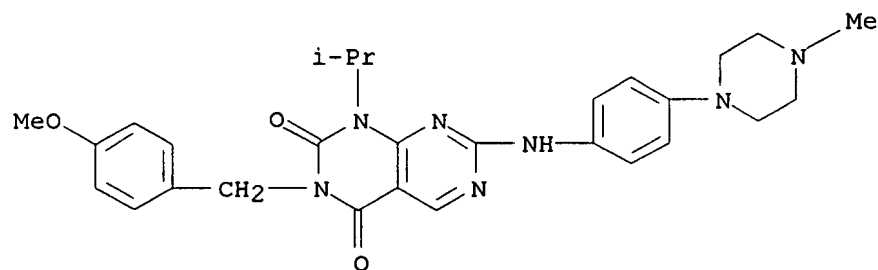
RN 251372-02-8 CAPLUS

CN Pyrimido[4,5-d]pyrimidine-2,4(1H,3H)-dione, 1-(1-methylethyl)-7-[[4-(4-  
methyl-1-piperazinyl)phenyl]amino]-3-(2-propenyl)- (9CI) (CA INDEX NAME)



RN 251372-03-9 CAPLUS

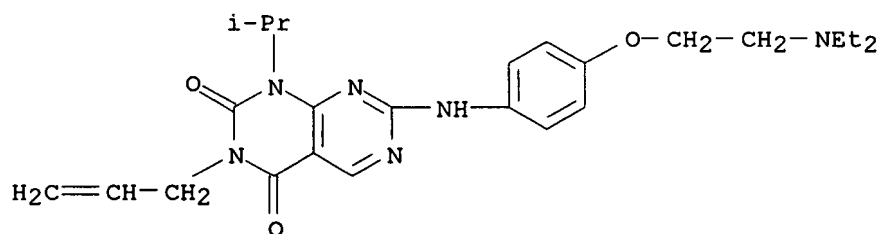
CN Pyrimido[4,5-d]pyrimidine-2,4(1H,3H)-dione,  
3-[(4-methoxyphenyl)methyl]-1-(  
1-methylethyl)-7-[[4-(4-methyl-1-piperazinyl)phenyl]amino]- (9CI) (CA  
INDEX NAME)



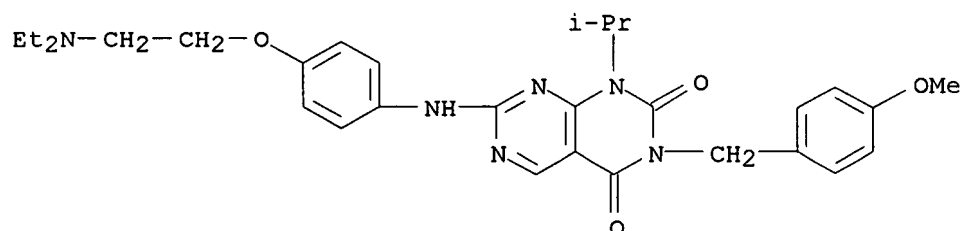
RN 251372-04-0 CAPLUS

CN Pyrimido[4,5-d]pyrimidine-2,4(1H,3H)-dione, 7-[[4-[2-(  
(diethylamino)ethoxy]phenyl]amino]-1-(1-methylethyl)-3-(2-propenyl)-  
(9CI)

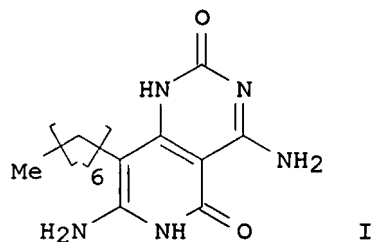
(CA INDEX NAME)



RN 251372-05-1 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidine-2,4(1H,3H)-dione, 7-[[4-[2-(diethylamino)ethoxy]phenyl]amino]-3-[(4-methoxyphenyl)methyl]-1-(1-methylethyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 4 OF 36 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 1999:720252 CAPLUS  
 DOCUMENT NUMBER: 132:64095  
 TITLE: The G-C DNA Base Hybrid: Synthesis, Self-Organization and Structural Analysis  
 AUTHOR(S): Mascali, Mark; Hext, Nicholas M.; Warmuth, Ralf; Arnall-Culliford, James R.; Moore, Madeleine H.; Turkenburg, Johan P.  
 CORPORATE SOURCE: Department of Chemistry, University of Nottingham, Nottingham, NG7 2RD, UK  
 SOURCE: J. Org. Chem. (1999), 64(23), 8479-8484  
 CODEN: JOCEAH; ISSN: 0022-3263  
 PUBLISHER: American Chemical Society  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 GI



AB The guanine-cytosine base hybrid (I) is synthesized in five steps from the malononitrile dimer. One face of the mol. possesses the cytosine AAD hydrogen bonding code and the other the guanine DDA code. The expression of this information leads to the self-organization of six mols. of I into a hexagonal supermacrocycle in the solid state through the formation of

18 strong hydrogen bonds. This is the first structurally characterized example of a synthetic hexagonal assembly where the mol. program is unambiguous and all of the information required for exclusive rosette formation is contained within hydrogen bonding codes. I crystallizes in the very rare, high-symmetry cubic space group Ia.hivin.3d, with 96 mols. in the unit cell. The crystal is highly solvated and only ca. 35% occupied by mols. of I, with a criss-crossed network of channel voids generated by the overlapping of I6 hexamers.

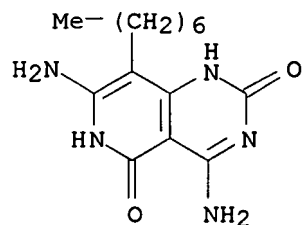
IT 184949-81-3P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (crystal structure; synthesis, self-organization and structural anal. of guanine-cytosine base hybrid)

RN 184949-81-3 CAPLUS

CN Pyrido[4,3-d]pyrimidine-2,5(1H,6H)-dione, 4,7-diamino-8-heptyl- (9CI)

(CA INDEX NAME)



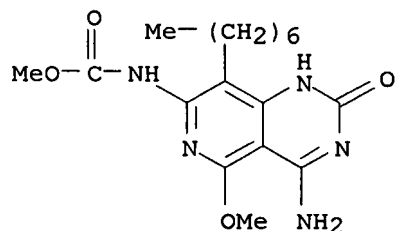
IT 184949-80-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (synthesis, self-organization and structural anal. of guanine-cytosine base hybrid)

RN 184949-80-2 CAPLUS

CN Carbamic acid, (4-amino-8-heptyl-1,2-dihydro-5-methoxy-2-oxopyrido[4,3-d]pyrimidin-7-yl)-, methyl ester (9CI) (CA INDEX NAME)





REFERENCE COUNT: 14  
 REFERENCE(S): (2) JuneK, H; Monatsh Chem 1983, V114, P973 CAPLUS  
 (3) JuneK, H; Monatsh Chem 1985, V116, P1199 CAPLUS  
 (4) Kolotuchin, S; J Am Chem Soc 1998, V120, P9092 CAPLUS  
 (5) Lebuis, A; Can J Chem 1993, V71, P2070 CAPLUS  
 (6) Marsh, A; Chem Commun 1996, P1527 CAPLUS  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1999:399032 CAPLUS

DOCUMENT NUMBER: 131:196237

TITLE: Calculation of relative binding free energy difference

of DHFR inhibitors by a finite difference thermodynamic integration (FDTI) approach

AUTHOR(S): Kamath, Shantaram; Coutinho, Evans; Desai, Prashant  
 CORPORATE SOURCE: Department of Pharmaceutical Chemistry, Bombay College

of Pharmacy, Mumbai, 400 098, India

SOURCE: J. Biomol. Struct. Dyn. (1999), 16(6), 1239-1244  
 CODEN: JBSDD6; ISSN: 0739-1102

PUBLISHER: Adenine Press

DOCUMENT TYPE: Journal

LANGUAGE: English

AB We have implemented a Finite Difference Thermodyn. Integration (FDTI) approach to est. the binding free energy relative to methotrexate (MTX) of

three unreported inhibitors of DHFR. The validity of the calcn. methodol.

was first proved by evaluating the relative binding free energy difference

for two well-known anticancer agents aminopterin and methotrexate. The usefulness of the method in drug design has been demonstrated by the fact that inhibitor 5, designed by us, was found to bind more tightly than MTX by as much as 7.5 kcal/mol and is a worthy candidate for further pharmacol. investigations.

IT 241822-91-3

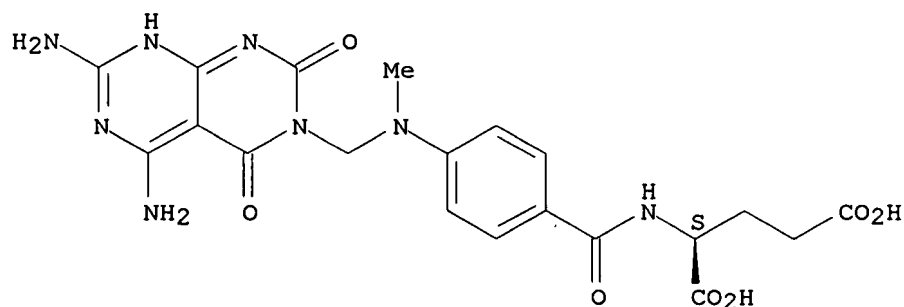
RL: PRP (Properties)

(calcn. of relative binding free energy difference of dihydrofolate reductase inhibitors by a finite difference thermodyn. integration approach)

RN 241822-91-3 CAPLUS

CN L-Glutamic acid, N-[4-[(5,7-diamino-1,4-dihydro-2,4-dioxypyrimido[4,5-d]pyrimidin-3(2H)-yl)methyl]methylamino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT:

16

REFERENCE(S):

- (1) Ajay, M; J Med Chem 1995, V38, P4953 CAPLUS  
 (4) Filman, D; J Biol Chem 1982, V257, P13663 CAPLUS  
 (5) Green, E; Folate Antagonists as Therapeutic

Agents

- 1984, V2 CAPLUS  
 (6) Hodnett, C; J Pharm Sci 1976, V65, P1150 CAPLUS  
 (7) Kollman, P; Chem Rev 1993, V93, P2395 CAPLUS  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 36 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1999:241175 CAPLUS

DOCUMENT NUMBER: 130:352246

TITLE: Synthesis of some aminopyrimido[4,5-d]pyrimidinethiones and related compounds and their effect on cellobiase activity

AUTHOR(S): Abdel-Megid, M.; Abdel-Rahman, T. M.; Ali, Usama F.  
 CORPORATE SOURCE: Chemistry Department, Faculty of Education, Ain-Shams University, Cairo, Egypt

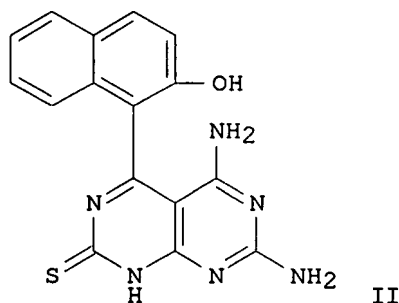
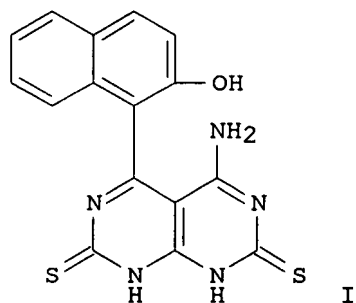
SOURCE: Mansoura Sci. Bull., A: Chem. (1998), 25(2), 17-35  
 CODEN: MSBCF4; ISSN: 1110-4562

PUBLISHER: Mansoura University

DOCUMENT TYPE: Journal

LANGUAGE: English

GI



AB The synthesis of some aminopyrimido[4,5-d]pyrimidinethiones such as I and II was achieved by reaction of 4-amino-6-aryl-5-cyanopyrimidine-2(3H)-thiones with bifunctional reagents, followed by ring closure reactions. The structures of the new products were deduced from elemental anal. and spectral data. A structure-activity correlation for cellobiase activity produced by thermophilic fungi was also studied.

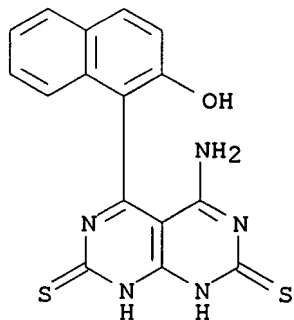
IT 225219-20-5P 225219-36-3P

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(prepn. of aminopyrimido[4,5-d]pyrimidinethiones and related compds. and their effect on cellobiase activity)

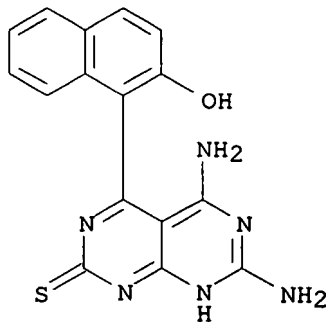
RN 225219-20-5 CAPLUS

CN Pyrimido[4,5-d]pyrimidine-2,7(1H,6H)-dithione, 4-amino-5-(2-hydroxy-1-naphthalenyl)- (9CI) (CA INDEX NAME)



RN 225219-36-3 CAPLUS

CN Pyrimido[4,5-d]pyrimidine-2(1H)-thione, 5,7-diamino-4-(2-hydroxy-1-naphthalenyl)- (9CI) (CA INDEX NAME)



#### REFERENCE COUNT:

#### REFERENCE(S):

22

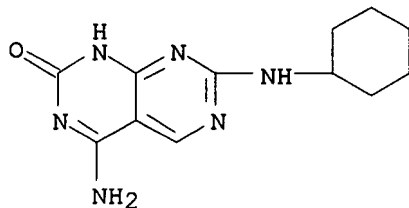
- (1) Abdel-Halim, A; Pharmazie 1995, V50, P726 CAPLUS
- (2) Abdel-Megid, M; Indian J Chem 1997, V36B, P269 CAPLUS
- (3) Abdel-Megid, M; Indian J Heterocycl Chem 1995,

V4,

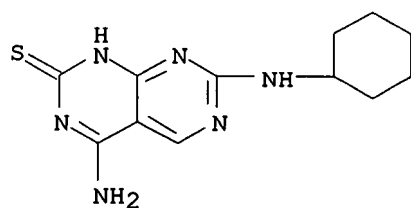
P269 CAPLUS

P142 (5) Abdel-Rahman, R; Pak J Sci Ind Res 1990, V33,  
CAPLUS  
(8) Fikry, R; Indian J Heterocycl Chem 1995, V4, P265  
CAPLUS  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

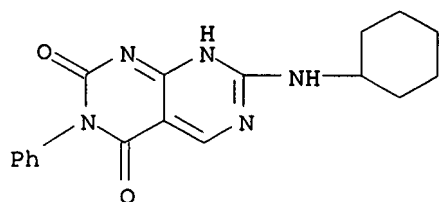
L4 ANSWER 7 OF 36 CAPLUS COPYRIGHT 2001 ACS  
ACCESSION NUMBER: 1999:209801 CAPLUS  
DOCUMENT NUMBER: 130:338080  
TITLE: A solid phase approach to substituted pyrimidines and  
their conversion into condensed heterocycles for  
potential use in combinatorial chemistry  
AUTHOR(S): Srivastava, Sanjay K.; Haq, W.; Chauhan, P. M. S.  
CORPORATE SOURCE: Divisions of Medicinal Chemistry and Biopolymers,  
Central Drug Research Institute, Lucknow, 226001,  
India  
SOURCE: Comb. Chem. High Throughput Screening (1999), 2(1),  
33-37  
CODEN: CCHSFU; ISSN: 1386-2073  
PUBLISHER: Bentham Science Publishers  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
AB A novel general synthesis of substituted pyrimidines has been carried out  
on a solid support. The C-atoms carrying the cyano, amino, carboxamido,  
as well as the anchoring site have been exploited to generate libraries  
of  
comps. Synthesis of 2,5,6-trisubstituted pyrimidines was carried out by  
nucleophilic displacement of the anchor by various amines. Further  
investigations were directed toward the solid phase synthesis of  
pyrimido[4,5-d]pyrimidines.  
IT 224575-78-4P 224575-83-1P 224575-96-6P  
224576-00-5P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(solid-phase synthesis of pyrimidines and their conversion into  
condensed heterocycles)  
RN 224575-78-4 CAPLUS  
CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 4-amino-7-(cyclohexylamino)- (9CI)  
(CA INDEX NAME)



RN 224575-83-1 CAPLUS  
CN Pyrimido[4,5-d]pyrimidine-2(1H)-thione, 4-amino-7-(cyclohexylamino)-  
(9CI)  
(CA INDEX NAME)

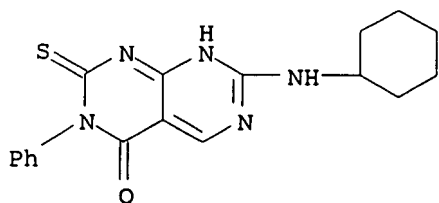


RN 224575-96-6 CAPLUS

CN Pyrimido[4,5-d]pyrimidine-2,4(1H,3H)-dione, 7-(cyclohexylamino)-3-phenyl-  
(9CI) (CA INDEX NAME)

RN 224576-00-5 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-4(1H)-one, 7-(cyclohexylamino)-2,3-dihydro-3-phenyl-2-thioxo- (9CI) (CA INDEX NAME)



## REFERENCE COUNT:

## REFERENCE (S) :

11

(3) Ban, M; Bioorg &amp; Med Chem 1998, V6, P1057 CAPLUS

(5) Chauhan, P; Indian J Chem 1994, V33B, P32 CAPLUS

(6) Hermkens, P; Tetrahedron 1997, V53(16), P5643  
CAPLUS(7) Jalander, L; Heterocycles 1998, V48(4), P743  
CAPLUS

(8) Lowe, G; Chem Soc Rev 1995, P309 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 8 OF 36 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1998:465409 CAPLUS

DOCUMENT NUMBER: 129:189299

TITLE: Synthesis of pyrimido[4,5-d]pyrimidinethione  
derivatives as biocidal agents

AUTHOR(S): Abdel-Megid, Mohamed

CORPORATE SOURCE: Dep. Chemistry, Faculty Education Ain-Shams Univ.,  
Cairo, Egypt

SOURCE: Heterocycl. Commun. (1998), 4(3), 235-244

CODEN: HCOMEX; ISSN: 0793-0283  
 PUBLISHER: Freund Publishing House Ltd.  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English

AB In the search for new antimicrobial compds., several new pyrimido[4,5-d]pyrimidinethiones have been synthesized from .beta.-arylidene malononitriles with thiourea, followed by cyclocondensation with nitrogen and oxygen compds. Effect of the newly compds. on the activity of bacterial strains in comparison with Streptomycin and Gentamicin was studied.

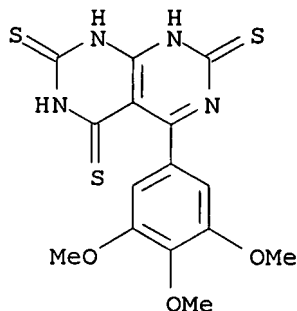
IT 211797-74-9P

RL: BAC (Biological activity or effector, except adverse); RCT (Reactant);

SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (prepn. and bactericidal activity of pyrimido[4,5-d]pyrimidinethiones)

RN 211797-74-9 CAPLUS

CN Pyrimido[4,5-d]pyrimidine-2,4,7(1H,3H,6H)-trithione, 5-(3,4,5-trimethoxyphenyl)- (9CI) (CA INDEX NAME)



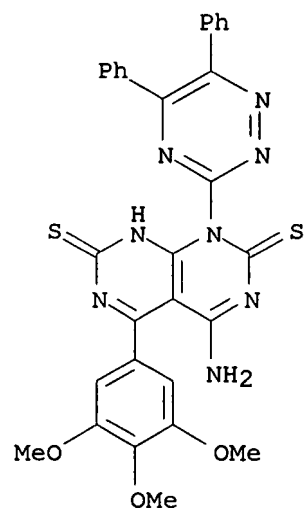
IT 211797-65-8P 211797-69-2P 211797-70-5P

211797-71-6P

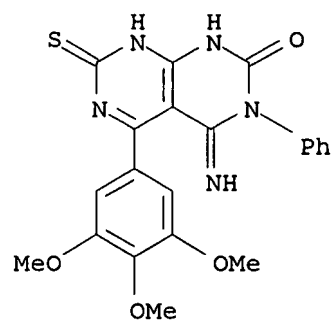
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (prepn. and bactericidal activity of pyrimido[4,5-d]pyrimidinethiones)

RN 211797-65-8 CAPLUS

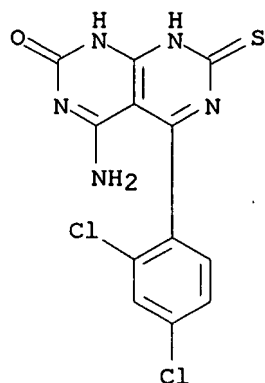
CN Pyrimido[4,5-d]pyrimidine-2,7(1H,6H)-dithione, 4-amino-1-(5,6-diphenyl-1,2,4-triazin-3-yl)-5-(3,4,5-trimethoxyphenyl)- (9CI) (CA INDEX NAME)



RN 211797-69-2 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one,  
 3,4,6,7-tetrahydro-4-imino-3-phenyl-7-  
 thioxo-5-(3,4,5-trimethoxyphenyl)- (9CI) (CA INDEX NAME)

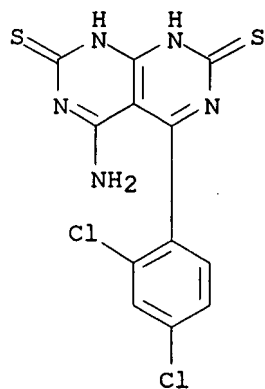


RN 211797-70-5 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 4-amino-5-(2,4-dichlorophenyl)-6,7-  
 dihydro-7-thioxo- (9CI) (CA INDEX NAME)



RN 211797-71-6 CAPLUS

CN Pyrimido[4,5-d]pyrimidine-2,7(1H,6H)-dithione, 4-amino-5-(2,4-dichlorophenyl)- (9CI) (CA INDEX NAME)



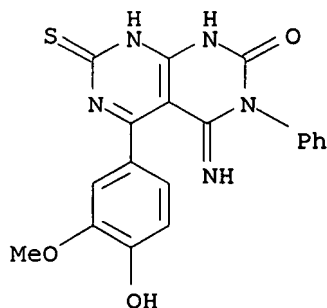
IT 211797-68-1P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. and bactericidal activity of pyrimido[4,5-d]pyrimidinethiones)

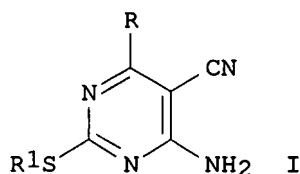
RN 211797-68-1 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-2(1H)-one, 3,4,6,7-tetrahydro-5-(4-hydroxy-3-methoxyphenyl)-4-imino-3-phenyl-7-thioxo- (9CI) (CA INDEX NAME)





L4 ANSWER 9 OF 36 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 1998:268835 CAPLUS  
 DOCUMENT NUMBER: 129:16099  
 TITLE: A novel solution and solid-phase approach to  
 2,4,5-tri- and 2,4,5,6-tetrasubstituted pyrimidines  
 and their conversion into condensed heterocycles  
 AUTHOR(S): Masquelin, Thierry; Sprenger, Daniel; Baer, Roman;  
 Gerber, Fernand; Mercadal, Yves  
 CORPORATE SOURCE: F. Hoffmann-La Roche A.-G., Basel, CH-4070, Switz.  
 SOURCE: Helv. Chim. Acta (1998), 81(4), 646-660  
 CODEN: HCACAV; ISSN: 0018-019X  
 PUBLISHER: Verlag Helvetica Chimica Acta AG  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 129:16099  
 GI



AB A general synthesis of 2,4,5-tri- and 2,4,5,6-tetrasubstituted  
 pyrimidines  
 I [R = H; R1 = hexyl, 4-MeOC6H4, 3-NCC6H4CH2, PhMeCH or R = MeS; R1 =  
 hexyl, 4-NCC6H4CH2, HO(CH2)6, 4-ClC6H4CH2] by condensation of thiouronium  
 salts with EtOCH:C(CN)2 and (MeS)2C:C(CN)2, resp., was first established  
 in soln. and then successfully transferred onto solid support by using a  
 polymer-bound thiouronium salt. Further investigations were directed  
 toward a multidirectional cleavage procedure of the 2-(alkylsulfinyl)  
 intermediates, obtained from the 2-(alkylthio)pyrimidines I (R = MeS, R1  
 =  
 hexyl; R = H or MeS, R1 = CH2R2, R2 = Merrifield resin), with different  
 nucleophiles to form highly substituted pyrimidines. In addn., fused  
 heterocycles such as 3,4-dihydro-4-imino-5-(methylthio)pyrimido[4,5-  
 d]pyrimidine-2(1H)-thiones and 10-(methylthio)-5-oxo/thioxoimidazo[1,2-

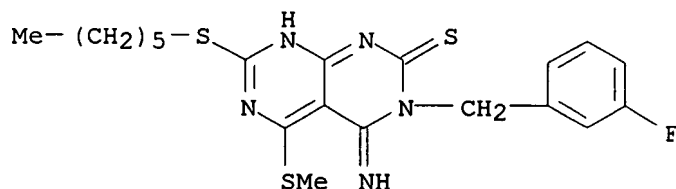
c]pyrimido[5,4-e]pyrimidin-2(3H)-ones were generated in good to excellent yields by condensation of I (R = MeS; R1 = hexyl, 4-NCC6H4CH2, Me) with versatile isocyanates and isothiocyanates, with subsequent alkylation.

IT 207691-50-7P 207691-51-8P 207691-53-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of pyrimidines in soln. and on solid-phase phase and  
conversion  
into condensed heterocycles)

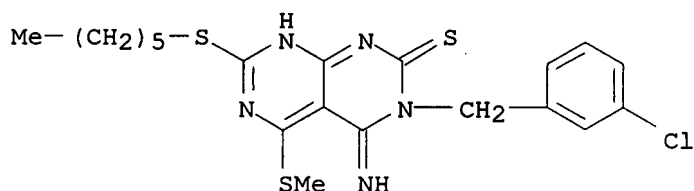
RN 207691-50-7 CAPLUS

CN Pyrimido[4,5-d]pyrimidine-2(1H)-thione, 3-[(3-fluorophenyl)methyl]-7-(hexylthio)-3,4-dihydro-4-imino-5-(methylthio)- (9CI) (CA INDEX NAME)



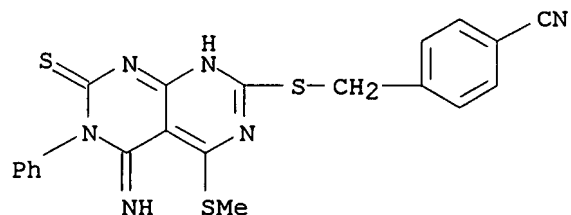
RN 207691-51-8 CAPLUS

CN Pyrimido[4,5-d]pyrimidine-2(1H)-thione, 3-[(3-chlorophenyl)methyl]-7-(hexylthio)-3,4-dihydro-4-imino-5-(methylthio)- (9CI) (CA INDEX NAME)



RN 207691-53-0 CAPLUS

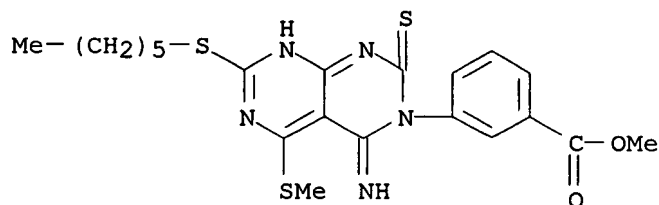
CN Benzonitrile, 4-[[[1,5,6,7-tetrahydro-5-imino-4-(methylthio)-6-phenyl-7-thioxopyrimido[4,5-d]pyrimidin-2-yl]thio]methyl]- (9CI) (CA INDEX NAME)



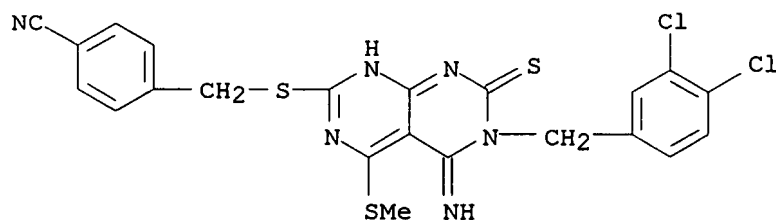
IT 207691-49-4P 207691-52-9P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of pyrimidines in soln. and on solid-phase phase and  
conversion  
into condensed heterocycles)

RN 207691-49-4 CAPLUS  
 CN Benzoic acid, 3-[7-(hexylthio)-1,4-dihydro-4-imino-5-(methylthio)-2-thioxopyrimido[4,5-d]pyrimidin-3(2H)-yl]-, methyl ester (9CI) (CA INDEX NAME)

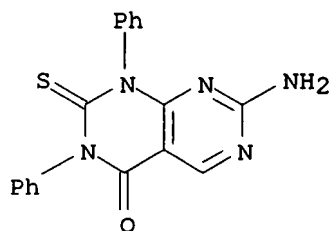


RN 207691-52-9 CAPLUS  
 CN Benzonitrile, 4-[[[6-[(3,4-dichlorophenyl)methyl]-1,5,6,7-tetrahydro-5-imino-4-(methylthio)-7-thioxopyrimido[4,5-d]pyrimidin-2-yl]thio]methyl]- (9CI) (CA INDEX NAME)

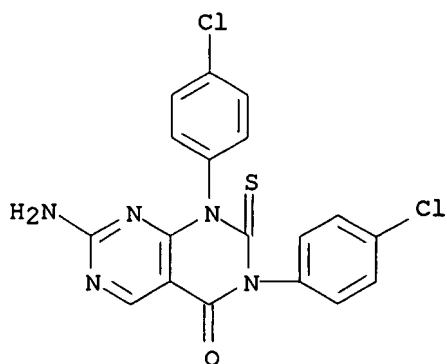


L4 ANSWER 10 OF 36 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 1998:264996 CAPLUS  
 DOCUMENT NUMBER: 129:67754  
 TITLE: Synthesis of pyrimido[4,5-d]pyrimidines as antifungal agents  
 AUTHOR(S): Devi, N. Anita; Khuman, Ch. K.; Singh, R. K.  
 CORPORATE SOURCE: Tombisana; Singh, L. Warjeet  
 Chemistry Department, Manipur University, Canchipur, 795 003, India  
 SOURCE: Indian J. Heterocycl. Chem. (1998), 7(3), 193-196  
 CODEN: IJCHEI; ISSN: 0971-1627  
 PUBLISHER: Prof. R. S. Varma  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 AB Substituted 2-amino-6,8-diaryl-5-oxopyrimido[4,5-d]pyrimidine-7-thiones and 3,4-dihydro-2-amino-4-phenyl-6,8-diaryl-5-oxopyrimido[4,5-d]pyrimidin-7-thiones were prepd. by treating various condensation products derived from thiobarbituric acids with guanidine nitrate in sodium methoxide and methanol.  
 IT 208831-36-1P 208831-37-2P 208831-38-3P  
 208831-39-4P 208831-40-7P 208831-41-8P  
 RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

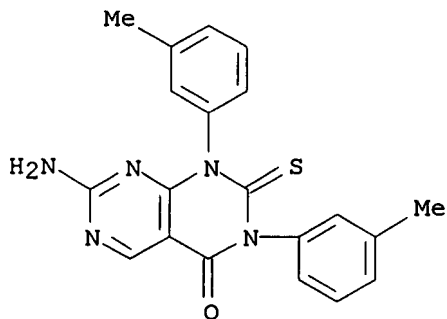
(prepn. and antifungal activity of (thioxo)pyrimidopyrimidinones)  
 RN 208831-36-1 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-4(1H)-one, 7-amino-2,3-dihydro-1,3-diphenyl-2-thioxo- (9CI) (CA INDEX NAME)



RN 208831-37-2 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-4(1H)-one, 7-amino-1,3-bis(4-chlorophenyl)-2,3-dihydro-2-thioxo- (9CI) (CA INDEX NAME)

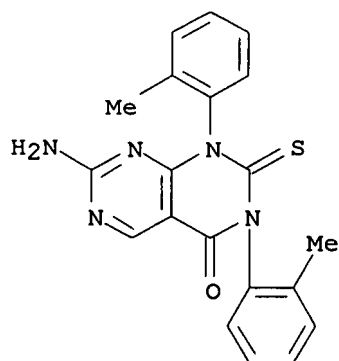


RN 208831-38-3 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-4(1H)-one, 7-amino-2,3-dihydro-1,3-bis(3-methylphenyl)-2-thioxo- (9CI) (CA INDEX NAME)



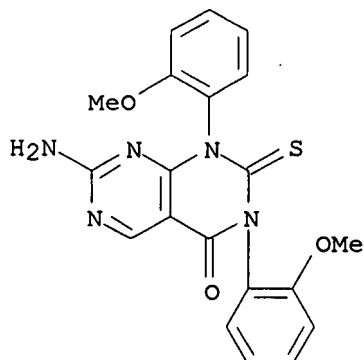
RN 208831-39-4 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidin-4(1H)-one, 7-amino-2,3-dihydro-1,3-bis(2-

methylphenyl)-2-thioxo- (9CI) (CA INDEX NAME)



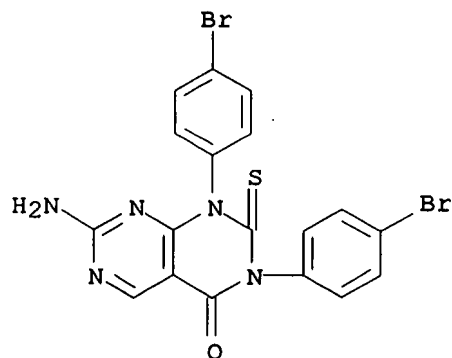
RN 208831-40-7 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-4(1H)-one, 7-amino-2,3-dihydro-1,3-bis(2-methoxyphenyl)-2-thioxo- (9CI) (CA INDEX NAME)

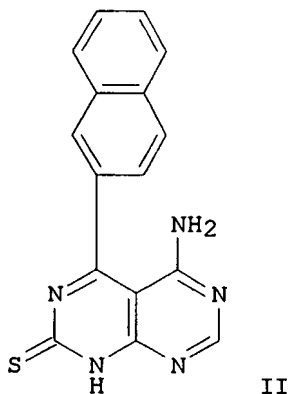
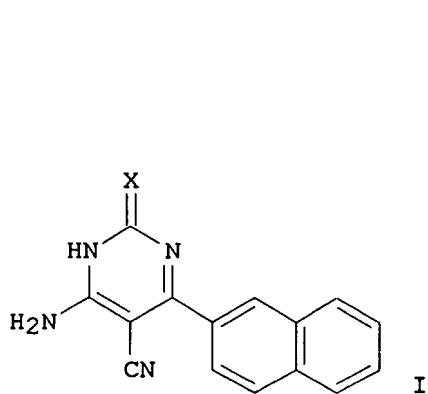


RN 208831-41-8 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-4(1H)-one, 7-amino-1,3-bis(4-bromophenyl)-2,3-dihydro-2-thioxo- (9CI) (CA INDEX NAME)



L4 ANSWER 11 OF 36 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 1997:386438 CAPLUS  
 DOCUMENT NUMBER: 127:95256  
 TITLE: Synthesis of some new pyrimidine and condensed pyrimidine derivatives  
 AUTHOR(S): Fikry, R. M.  
 CORPORATE SOURCE: Chemistry Department, Faculty of Science, Zagazig University, Zagazig, Egypt  
 SOURCE: J. Indian Chem. Soc. (1996), 73(12), 698-699  
 CODEN: JICSAH; ISSN: 0019-4522  
 PUBLISHER: Indian Chemical Society  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 127:95256  
 GI



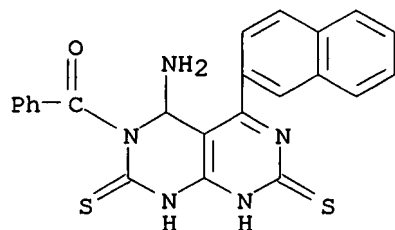
AB Reaction of (2-naphthylmethylene)malononitrile with urea and thiourea gave pyrimidines I (X = O, S). Reactions of I (X = S) with cyclohexanone, formamide, hydrazine, BzNCS, CS<sub>2</sub>, and HCOOH gave condensed pyrimidines such as II.

IT 172023-19-7P 172023-20-0P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of)

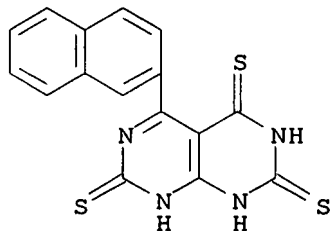
RN 172023-19-7 CAPLUS

CN Pyrimido[4,5-d]pyrimidine-2,7(1H,3H)-dithione, 4-amino-3-benzoyl-4,6-dihydro-5-(2-naphthalenyl)- (9CI) (CA INDEX NAME)



RN 172023-20-0 CAPLUS

CN Pyrimido[4,5-d]pyrimidine-2,4,7(1H,3H,6H)-trithione, 5-(2-naphthalenyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 12 OF 36 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1997:352797 CAPLUS

DOCUMENT NUMBER: 127:81414

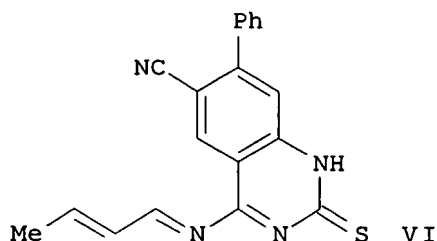
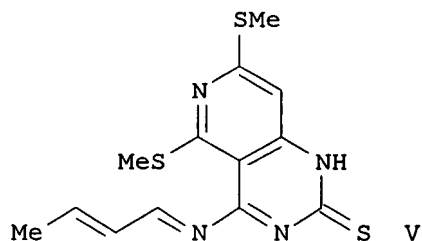
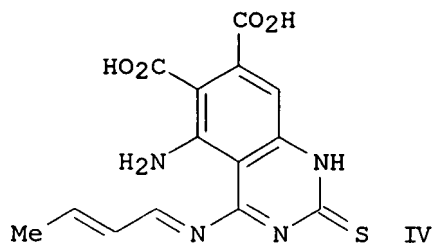
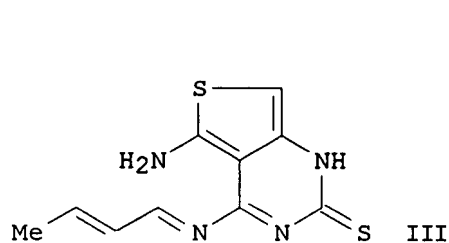
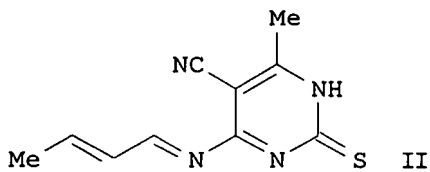
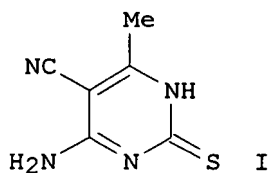
TITLE: A novel route to polyfunctionally substituted  
methylpyrimidinylcarbonitriles and a pyridopyrimidineAUTHOR(S): Elkholy, Yehya Mahmoud; Abdel-Aziz Elassar,  
Abdel-Zaher; Elnagdi, Mohamed HilmyCORPORATE SOURCE: Chemistry Department, Faculty of Science, Helwan  
University, Cairo, EgyptSOURCE: Heterocycl. Commun. (1997), 3(2), 151-158  
CODEN: HCOMEX; ISSN: 0793-0283

PUBLISHER: Freund

DOCUMENT TYPE: Journal

LANGUAGE: English

GI



AB Thioxopyrimidine I reacted with crotonaldehyde generated in situ to yield the pyrimidine deriv. II which reacted with sulfur to yield thienopyrimidine III. This latter compd. reacted with maleic anhydride to afford quinoxaline IV. Compd. II reacted with carbon disulfide in benzene contg. sodium hydride followed by treatment with Me iodide to yield pyridopyrimidine V. Compd. II reacted with benzyldinmalononitrile to yield quinoxaline deriv. VI.

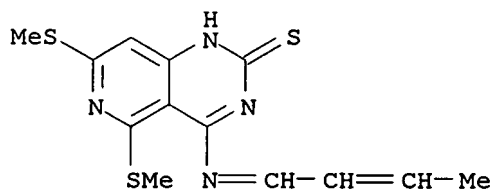
IT 191797-51-0P

RL: SPN (Synthetic preparation); PREP (Preparation)

(prepn. of methylpyrimidinylcarbonitriles and pyridopyrimidine)

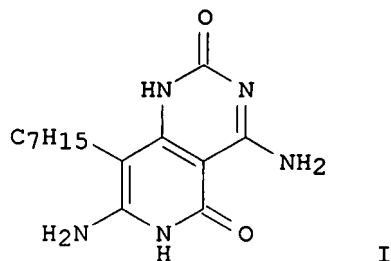
RN 191797-51-0 CAPLUS

CN Pyrido[4,3-d]pyrimidine-2(1H)-thione, 4-(2-butenylideneamino)-5,7-bis(methylthio)- (9CI) (CA INDEX NAME)

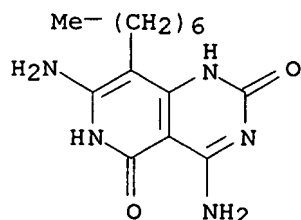




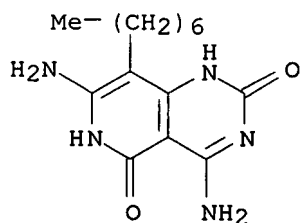
L4 ANSWER 13 OF 36 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 1996:646803 CAPLUS  
 DOCUMENT NUMBER: 126:59591  
 TITLE: Programming a hydrogen-bonding code for the specific  
 generation of a supermacrocycle  
 AUTHOR(S): Mascial, Mark; Hext, Nicholas M.; Warmuth, Ralf;  
 Moore,  
 Madeleine H.; Turkenburg, Johan P.  
 CORPORATE SOURCE: Dep. of Chemistry, Univ. of Nottingham, Nottingham,  
 NG72RD, UK  
 SOURCE: Angew. Chem., Int. Ed. Engl. (1996), 35(19),  
 2204-2206  
 CODEN: ACIEAY; ISSN: 0570-0833  
 PUBLISHER: VCH  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 126:59591  
 GI



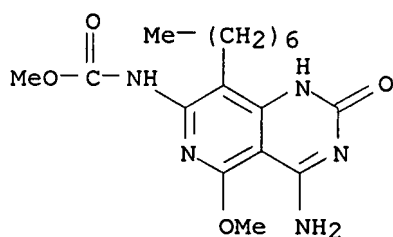
AB A high-level information approach in imposing a predetd. state of order  
 on  
 mol. crystal components is established with the prepd. I. The use of I  
 as  
 an inclathration host is discussed.  
 IT **184949-81-3DP**, hydrogen-bonded hexamer **184949-81-3P**  
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
 (crystallog.; programming hydrogen-bonding code for specific  
 generation  
 of supermacrocycle)  
 RN 184949-81-3 CAPLUS  
 CN Pyrido[4,3-d]pyrimidine-2,5(1H,6H)-dione, 4,7-diamino-8-heptyl- (9CI)  
 (CA  
 INDEX NAME)



RN 184949-81-3 CAPLUS  
 CN Pyrido[4,3-d]pyrimidine-2,5(1H,6H)-dione, 4,7-diamino-8-heptyl- (9CI)  
 (CA INDEX NAME)

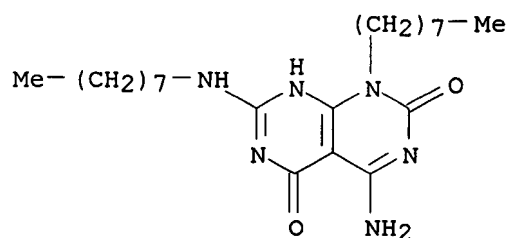


IT 184949-80-2P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)  
 (programming hydrogen-bonding code for specific generation of  
 supermacrocycle)  
 RN 184949-80-2 CAPLUS  
 CN Carbamic acid, (4-amino-8-heptyl-1,2-dihydro-5-methoxy-2-oxypyrido[4,3-  
 d]pyrimidin-7-yl)-, methyl ester (9CI) (CA INDEX NAME)

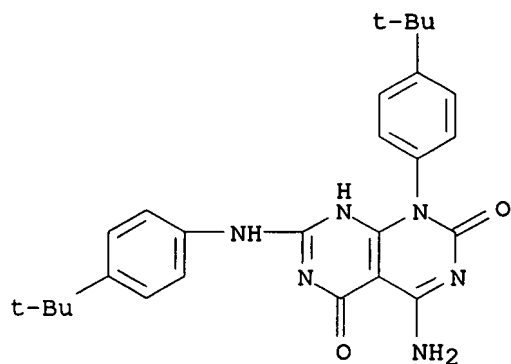


L4 ANSWER 14 OF 36 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 1996:441546 CAPLUS  
 DOCUMENT NUMBER: 125:195568  
 TITLE: Self-complementary hydrogen bonding heterocycles  
 designed for the enforced self-assembly into  
 supramolecular macrocycles  
 AUTHOR(S): Marsh, Andrew; Silvestri, Michael; Lehn, Jean-Marie  
 CORPORATE SOURCE: Laboratoire Chimie Supramoléculaire, Université Louis  
 Pasteur, Strasbourg, 67000, Fr.

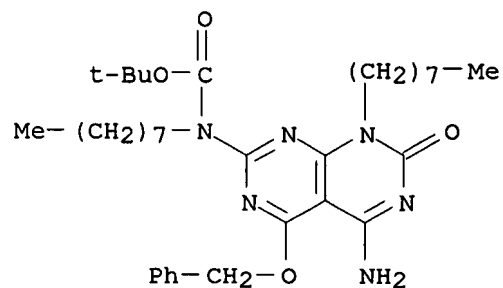
SOURCE: Chem. Commun. (Cambridge) (1996), (13), 1527-1528  
 CODEN: CHCOFS; ISSN: 1359-7345  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 AB A series of 2-oxopyrimido[4,5-d]pyrimidin-5(6H)-ones are synthesized that contain a hydrogen bond code that mediates their self-organization into a hexameric supramol. macrocyclic structure.  
 IT **181112-62-9P 181112-63-0P**  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. of)  
 RN 181112-62-9 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidine-2,5(1H,6H)-dione, 4-amino-1-octyl-7-(octylamino)-  
 (9CI) (CA INDEX NAME)



RN 181112-63-0 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidine-2,5(1H,6H)-dione, 4-amino-1-[4-(1,1-dimethylethyl)phenyl]-7-[[4-(1,1-dimethylethyl)phenyl]amino]- (9CI) (CA INDEX NAME)



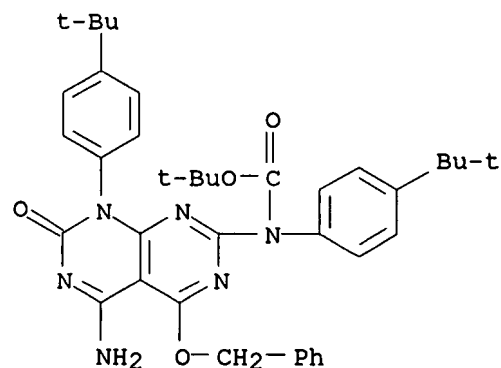
IT **181112-66-3P 181112-69-6P 181112-71-0P**  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)  
 (self-complementary hydrogen bonding heterocycles designed for the enforced self-assembly into supramol. macrocycles)  
 RN 181112-66-3 CAPLUS  
 CN Carbamic acid, [5-amino-7,8-dihydro-8-octyl-7-oxo-4-(phenylmethoxy)pyrimido[4,5-d]pyrimidin-2-yl]octyl-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 181112-69-6 CAPLUS

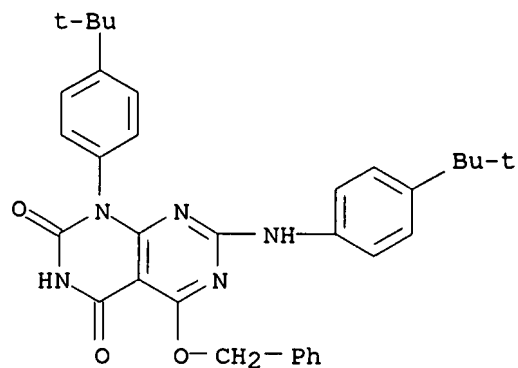
CN Carbamic acid,

[5-amino-8-[4-(1,1-dimethylethyl)phenyl]-7,8-dihydro-7-oxo-4-(phenylmethoxy)pyrimido[4,5-d]pyrimidin-2-yl][4-(1,1-dimethylethyl)phenyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

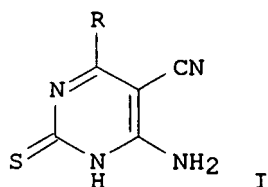


RN 181112-71-0 CAPLUS

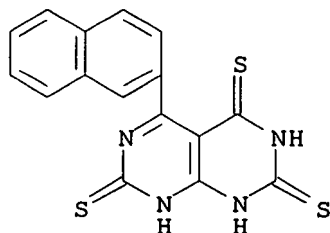
CN Pyrimido[4,5-d]pyrimidine-2,4(1H,3H)-dione, 1-[4-(1,1-dimethylethyl)phenyl]-7-[[4-(1,1-dimethylethyl)phenyl]amino]-5-(phenylmethoxy)- (9CI) (CA INDEX NAME)



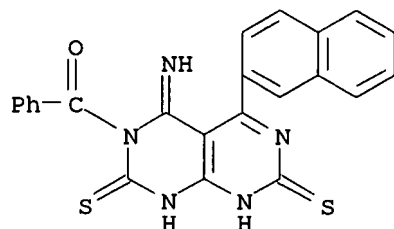
L4 ANSWER 15 OF 36 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 1995:941978 CAPLUS  
 DOCUMENT NUMBER: 124:117228  
 TITLE: Synthesis of some pyrimidine and condensed pyrimidine derivatives  
 AUTHOR(S): Fikry, R. M.  
 CORPORATE SOURCE: Faculty Science, Zagazig University, Zagazig, Egypt  
 SOURCE: Indian J. Heterocycl. Chem. (1995), 4(4), 265-8  
 CODEN: IJCHEI; ISSN: 0971-1627  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 GI



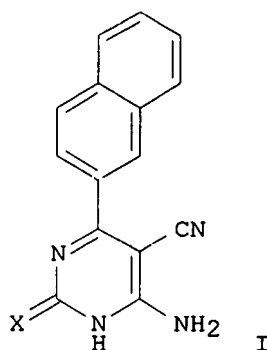
AB Pyrimidine I (R = 2-naphthyl) has been obtained by reaction of .beta.-naphthylidenylmalonitrile with thiourea. Heteroannulation of I with cyclohexanone, formamide, hydrazine, benzoyl isocyanate, carbon disulfide, and formic acid afforded condensed pyrimidine derivs., .  
 IT 172023-20-0P 173036-65-2P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (synthesis of pyrimidine and condensed pyrimidine derivs.)  
 RN 172023-20-0 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidine-2,4,7(1H,3H,6H)-trithione, 5-(2-naphthalenyl)-(9CI) (CA INDEX NAME)



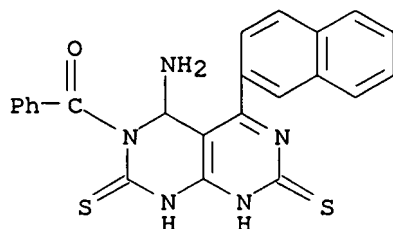
RN 173036-65-2 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidine-2,7(1H,3H)-dithione, 3-benzoyl-4,8-dihydro-4-imino-5-(2-naphthalenyl)- (9CI) (CA INDEX NAME)



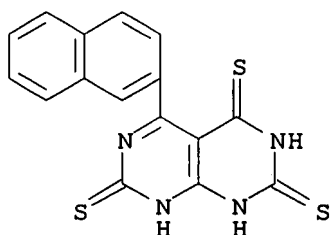
L4 ANSWER 16 OF 36 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 1995:782509 CAPLUS  
 DOCUMENT NUMBER: 124:55889  
 TITLE: Synthesis of some pyrimidines and condensed  
 pyrimidine derivatives  
 AUTHOR(S): Fikry, Reda M.  
 CORPORATE SOURCE: Faculty Of Science, Zagazig University, Zagazig,  
 Egypt  
 SOURCE: Zagazig J. Pharm. Sci. (1994), Volume Date 1994,  
 3(3B), 162-5  
 CODEN: ZJPSEV  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 GI



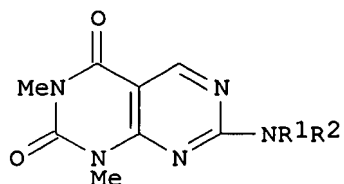
AB Pyrimidines I (X = O, S) were obtained from the reaction of  
 (.beta.-naphthylmethylene)malononitrile with urea and thiourea.  
 Heteroannulation of I (X = S) was also described.  
 IT 172023-19-7P 172023-20-0P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. of pyrimidines and condensed pyrimidines)  
 RN 172023-19-7 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidine-2,7(1H,3H)-dithione, 4-amino-3-benzoyl-4,6-  
 dihydro-5-(2-naphthalenyl)- (9CI) (CA INDEX NAME)



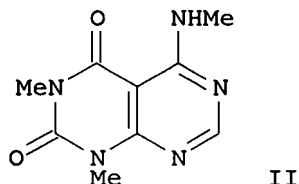
RN 172023-20-0 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidine-2,4,7(1H,3H,6H)-trithione, 5-(2-naphthalenyl)-  
 (9CI) (CA INDEX NAME)



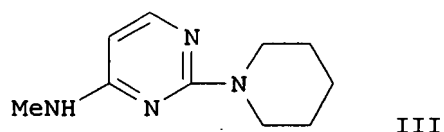
L4 ANSWER 17 OF 36 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 1995:334056 CAPLUS  
 DOCUMENT NUMBER: 122:239631  
 TITLE: Purines, pyrimidines and condensed systems based on  
 them. 12. 1,3-Dimethylpyrimido[4,5-d]pyrimidine-  
 2,4(1H,3H)-dione: the first case of regioselective  
 amination of condensed pyrimidines at position 2  
 AUTHOR(S): Gulevskaya, A. V.; Pozharsky, A. F.; Shorshnev, S.  
 V.;  
 Zheltushkina, E. A.  
 CORPORATE SOURCE: Rostov. Gos. Univ., Rostov-on-Don, 344006, Russia  
 SOURCE: Khim. Geterotsikl. Soedin. (1994), (9), 1249-52  
 CODEN: KGSSAQ; ISSN: 0132-6244  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Russian  
 GI



I



II



III

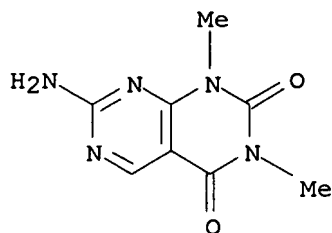
AB Amination of the title compd. in the presence of an oxidizing agent gave 7-amino derivs. (I; NR1R2 = NH2, NHMe, NHet, NHCMe3, piperidino, morpholino); in the case of Me2NH the 4-substituted deriv. (II) was also formed. Successive hydrolysis of I (NR1R2 = piperidino) in alk. and acidic medium gave 4-(methylamino)-2-piperidinopyrimidine (III).

IT 94839-44-8P 94839-45-9P 162147-58-2P  
162147-59-3P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of)

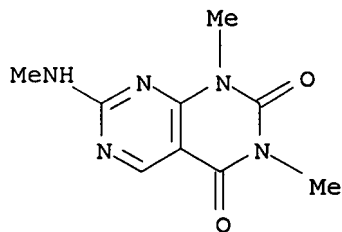
RN 94839-44-8 CAPLUS

CN Pyrimido[4,5-d]pyrimidine-2,4(1H,3H)-dione, 7-amino-1,3-dimethyl- (9CI)  
(CA INDEX NAME)



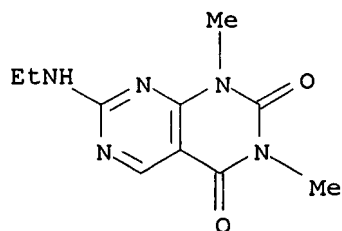
RN 94839-45-9 CAPLUS

CN Pyrimido[4,5-d]pyrimidine-2,4(1H,3H)-dione, 1,3-dimethyl-7-(methylamino)-  
(9CI) (CA INDEX NAME)

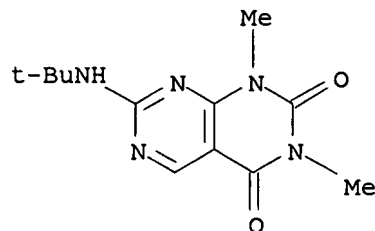




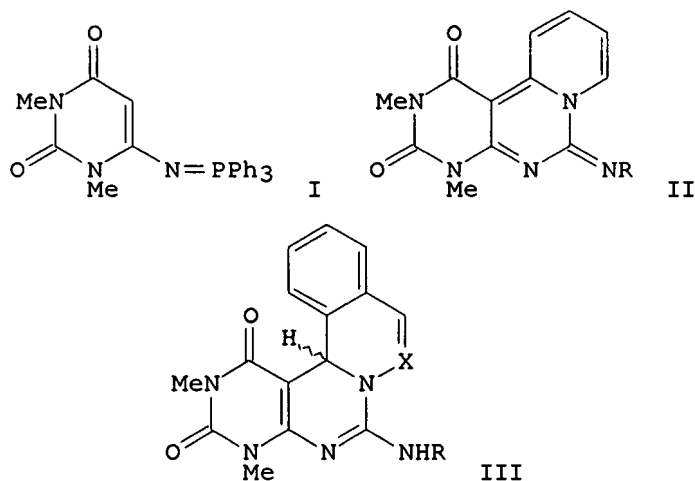
RN 162147-58-2 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidine-2,4(1H,3H)-dione, 7-(ethylamino)-1,3-dimethyl-  
 (9CI) (CA INDEX NAME)



RN 162147-59-3 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidine-2,4(1H,3H)-dione, 7-[(1,1-dimethylethyl)amino]-  
 1,3-dimethyl- (9CI) (CA INDEX NAME)



L4 ANSWER 18 OF 36 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 1994:134411 CAPLUS  
 DOCUMENT NUMBER: 120:134411  
 TITLE: Reactions of uracils. 21. Zwitterionic  
 heteropolycyclic uracils by a novel three-component  
 reaction: iminophosphorane, isocyanate, heteroarene  
 AUTHOR(S): Wamhoff, Heinrich; Schmidt, Andreas  
 CORPORATE SOURCE: Inst. Org. Chem. Biochem., Univ. Bonn, Bonn, D-53121,  
 Germany  
 SOURCE: J. Org. Chem. (1993), 58(25), 6976-84  
 CODEN: JOCEAH; ISSN: 0022-3263  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 120:134411  
 GI



AB The novel three-component reaction of (uracil-6-ylimino)phosphorane I, isocyanate, and (substituted) pyridines gives, in a one-pot procedure, a variety of new pyrido[1',2':3,4]pyrimido[4,5-d]pyrimidines, e.g., II (R = aryl, Me<sub>2</sub>CH, tosyl, allyl). The zwitterionic ground state of these new ring systems is established by solvatochromism, Hammett correlations,

NMR,

and X-ray anal. Replacement of the pyridine by isoquinoline and phthalazine gives access to the novel ring systems

pyrimido[4',5':4,5]pyrimido[6,1-a]isoquinoline and -phthalazine, which

are

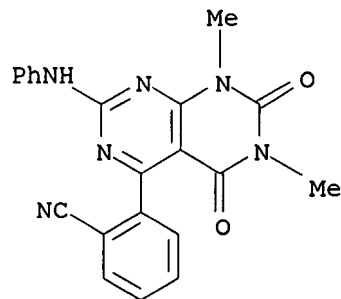
formed as dihydro derivs. [III; X = CH, N (15); R = aryl] or as zwitterions, depending on the reaction conditions. Oxidative cleavage of the phthalazine 15 in nitrobenzene affords the (cyanophenyl)pyrimido[4,5-d]pyrimidines.

IT **152897-89-7P 152897-90-0P 152897-91-1P**  
**152897-92-2P**

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. and oxidn. or thermal cleavage of)

RN 152897-89-7 CAPLUS

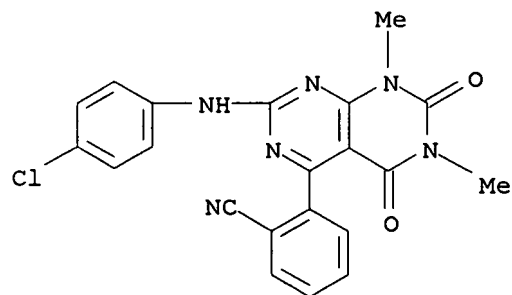
CN Benzonitrile, 2-[5,6,7,8-tetrahydro-6,8-dimethyl-5,7-dioxo-2-(phenylamino)pyrimido[4,5-d]pyrimidin-4-yl]- (9CI) (CA INDEX NAME)



RN 152897-90-0 CAPLUS

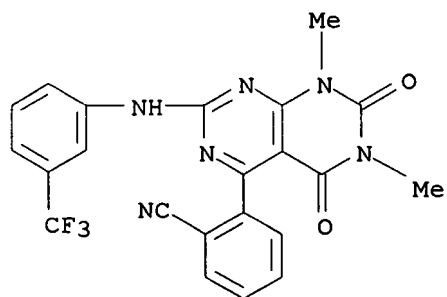
CN Benzonitrile,

2-[2-[(4-chlorophenyl)amino]-5,6,7,8-tetrahydro-6,8-dimethyl-5,7-dioxypyrimido[4,5-d]pyrimidin-4-yl]- (9CI) (CA INDEX NAME)



RN 152897-91-1 CAPLUS

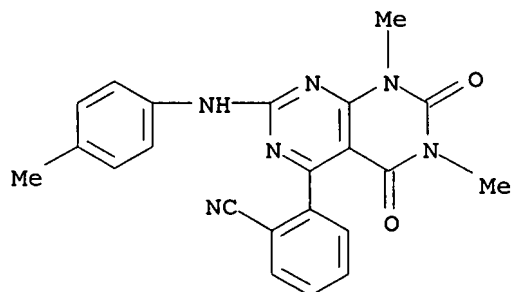
CN Benzonitrile, 2-[5,6,7,8-tetrahydro-6,8-dimethyl-5,7-dioxo-2-[[3-(trifluoromethyl)phenyl]amino]pyrimido[4,5-d]pyrimidin-4-yl]- (9CI) (CA INDEX NAME)



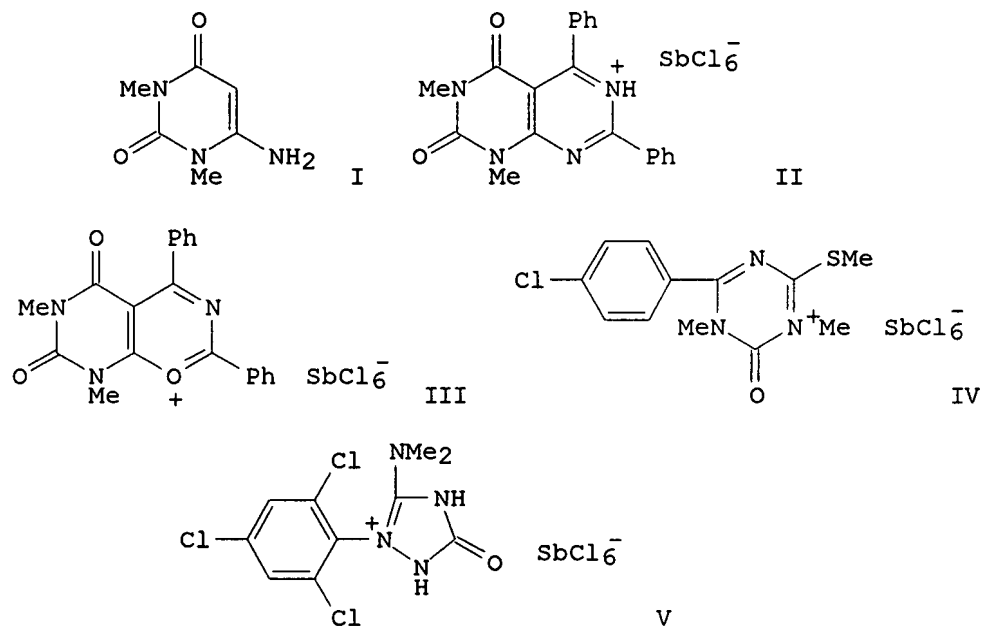
RN 152897-92-2 CAPLUS

CN Benzonitrile,

2-[5,6,7,8-tetrahydro-6,8-dimethyl-2-[(4-methylphenyl)amino]-5,7-dioxypyrimido[4,5-d]pyrimidin-4-yl]- (9CI) (CA INDEX NAME)



L4 ANSWER 19 OF 36 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 1992:531144 CAPLUS  
 DOCUMENT NUMBER: 117:131144  
 TITLE: Cyclization reactions of chloro-substituted  
 2-azoniaallene salts with bifunctional nucleophiles  
 AUTHOR(S): Hamed, Atef  
 CORPORATE SOURCE: Fac. Sci., Menoufia Univ., Shebin El-Koom, Egypt  
 SOURCE: Synthesis (1992), (6), 591-5  
 CODEN: SYNTBF; ISSN: 0039-7881  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 GI



AB Multifunctional electrophilic chloro-substituted 2-azoniaallene salts react with bifunctional nucleophiles to furnish heterocycles. Thus,

PhCCl:N+:CClPh SbCl<sub>6</sub><sup>-</sup> reacts with pyrimidinedione I to give pyrimidopyrimidinedione salt II. Pyrimido-1,3-oxazin-1-ium salts, e.g., III, representing a new ring system, triazinium salts, e.g., IV, and a triazolium salt (V) are also obtained.

IT 143249-27-8P 143249-29-0P 143249-47-2P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of)

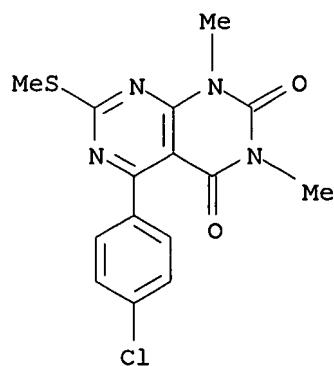
RN 143249-27-8 CAPLUS

CN Antimonate(1-), hexachloro-, (OC-6-11)-, hydrogen, compd. with  
5-(4-chlorophenyl)-1,3-dimethyl-7-(methylthio)pyrimido[4,5-d]pyrimidine-  
2,4(1H,3H)-dione (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 143249-26-7

CMF C15 H13 Cl N4 O2 S



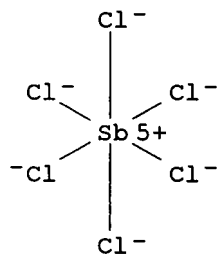
CM 2

CRN 16941-91-6

CMF C16 Sb . H

CCI CCS

CDES 7:OC-6-11



● H<sup>+</sup>

RN 143249-29-0 CAPLUS

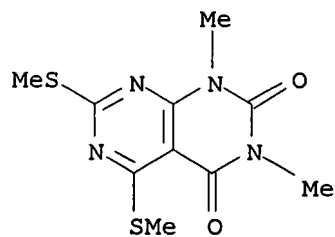
CN Antimonate(1-), hexachloro-, (OC-6-11)-, hydrogen, compd. with

1,3-dimethyl-5,7-bis(methylthio)pyrimido[4,5-d]pyrimidine-2,4(1H,3H)-dione  
(1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 143249-28-9

CMF C10 H12 N4 O2 S2



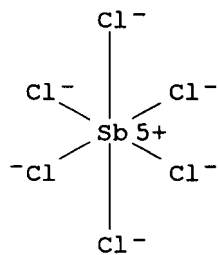
CM 2

CRN 16941-91-6

CMF C16 Sb . H

CCI CCS

CDES 7:OC-6-11



● H<sup>+</sup>

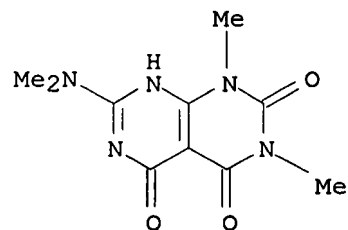
RN 143249-47-2 CAPLUS

CN Antimonate(1-), hexachloro-, (OC-6-11)-, hydrogen, compd. with  
7-(dimethylamino)-1,3-dimethylpyrimido[4,5-d]pyrimidine-2,4,5(1H,3H,6H)-  
trione (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 143249-46-1

CMF C10 H13 N5 O3



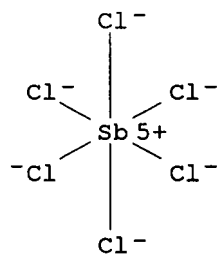
CM 2

CRN 16941-91-6

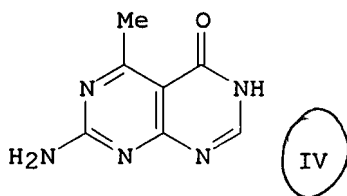
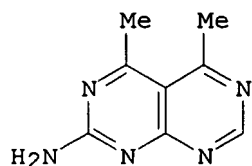
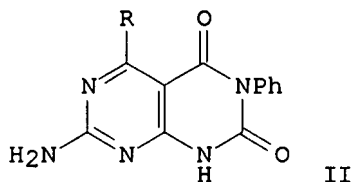
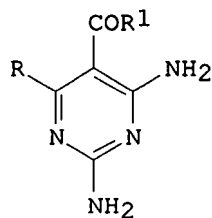
CMF C16 Sb . H

CCI CCS

CDES 7:OC-6-11



L4 ANSWER 20 OF 36 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 1991:408712 CAPLUS  
 DOCUMENT NUMBER: 115:8712  
 TITLE: Synthesis of 2,4-diamino-5-acetyl(ethoxycarbonyl)pyrimidines from .beta.-dicarbonyl compounds and dicyandiamide and their application for the construction of pyrimido[4,5-d]pyrimidine system  
 AUTHOR(S): Dorokhov, V. A.; Gordeev, M. F.; Komkov, A. V.; Bogdanov, V. S.  
 CORPORATE SOURCE: Inst. Org. Khim. im. Zelinskogo, Moscow, USSR  
 SOURCE: Izv. Akad. Nauk SSSR, Ser. Khim. (1991), (1), 159-64  
 CODEN: IASKA6; ISSN: 0002-3353  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Russian  
 OTHER SOURCE(S): CASREACT 115:8712  
 GI



AB The reaction of MeCOCH<sub>2</sub>COMe or RCOCH<sub>2</sub>COR<sub>1</sub> (R = Me, Ph; R<sub>1</sub> = Me, OEt) with



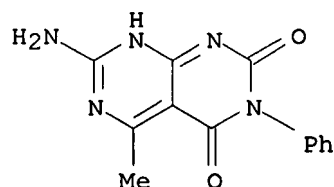
H<sub>2</sub>NC(NH<sub>2</sub>):NCN in the presence of Ni(OAc)<sub>2</sub> gives pyrimidines I.  
 Regiospecific annelation of I (after protection of the 2-NH<sub>2</sub> group) with  
 PhNCO or (MeO)<sub>2</sub>CHNMe<sub>2</sub> gives pyrimidopyrimidines, e.g., II, III, IV.

IT 134221-31-1P 134221-32-2P

RL: SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. of)

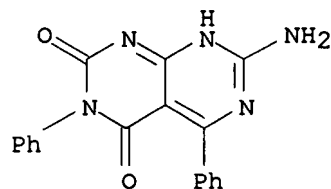
RN 134221-31-1 CAPLUS

CN Pyrimido[4,5-d]pyrimidine-2,4(1H,3H)-dione, 7-amino-5-methyl-3-phenyl-  
 (9CI) (CA INDEX NAME)



RN 134221-32-2 CAPLUS

CN Pyrimido[4,5-d]pyrimidine-2,4(1H,3H)-dione, 7-amino-3,5-diphenyl- (9CI)  
 (CA INDEX NAME)



L4 ANSWER 21 OF 36 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1990:514913 CAPLUS

DOCUMENT NUMBER: 113:114913

TITLE: Pyrimidines. 63. Novel ring transformations of  
 5-cyanouracils into 2-thiocytosines,  
 2,4-diaminopyrimidines, and  
 pyrimido[4,5-d]pyrimidines

by the reaction with thioureas and guanidines  
 AUTHOR(S): Hirota, Kosaku; Sajiki, Hironao; Kitade, Yukio; Maki,  
 Yoshifumi

CORPORATE SOURCE: Gifu Pharm. Univ., Gifu, 502, Japan

SOURCE: J. Chem. Soc., Perkin Trans. 1 (1990), (1), 123-8

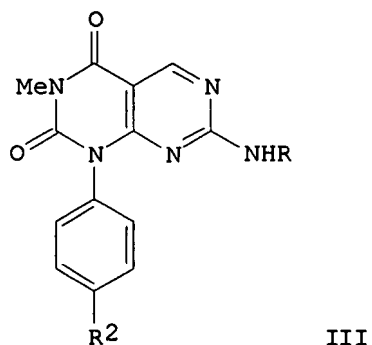
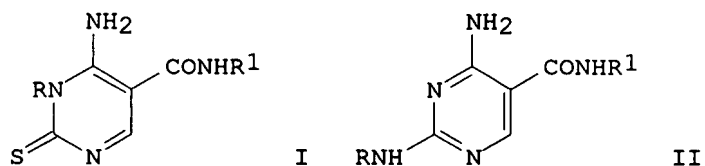
CODEN: JCPRB4; ISSN: 0300-922X

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 113:114913

GI



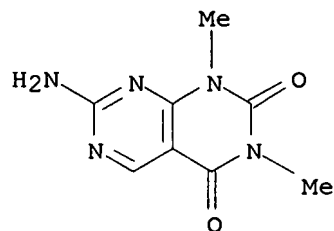
AB 1,3-Disubstituted 5-cyanouracils react with thioureas and guanidines to give the 5-carbamoyl-2-thiocytosines I (R = H, Me, Bu, Ph; R1 = Me, cyclohexyl) and 2,4-diamino-5-carbamoylpyrimidines II (R = Ph, Me; R1 = Me, H), resp. On the other hand, 1-aryl-5-cyanouracils react with thioureas to give 7-aminopyrimido [4,5-d]pyrimidine-2,4-diones III (R = H, Me; R2 H, OMe).

IT **94839-44-8P 101989-67-7P 128836-42-0P**  
**129088-65-9P**

RL: SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. of)

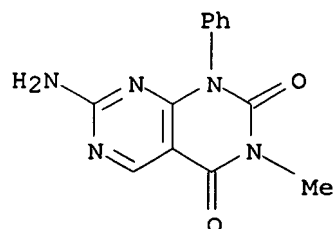
RN 94839-44-8 CAPLUS

CN Pyrimido[4,5-d]pyrimidine-2,4(1H,3H)-dione, 7-amino-1,3-dimethyl- (9CI)  
 (CA INDEX NAME)

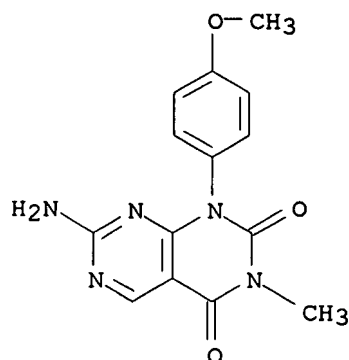


RN 101989-67-7 CAPLUS

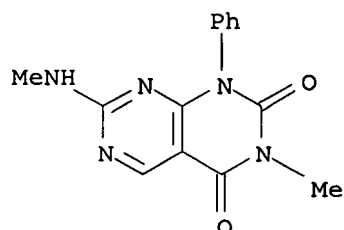
CN Pyrimido[4,5-d]pyrimidine-2,4(1H,3H)-dione, 7-amino-3-methyl-1-phenyl- (9CI) (CA INDEX NAME)



RN 128836-42-0 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidine-2,4(1H,3H)-dione,  
 7-amino-1-(4-methoxyphenyl)-3-  
 methyl- (9CI) (CA INDEX NAME)

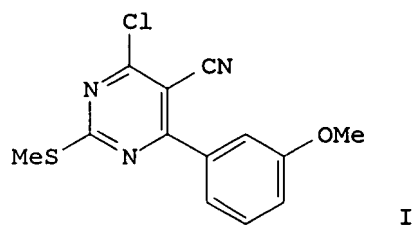


RN 129088-65-9 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidine-2,4(1H,3H)-dione, 3-methyl-7-(methylanino)-1-  
 phenyl- (9CI) (CA INDEX NAME)



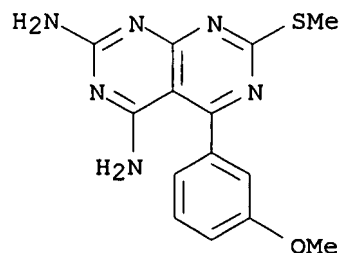
L4 ANSWER 22 OF 36 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 1990:478321 CAPLUS  
 DOCUMENT NUMBER: 113:78321  
 TITLE: Chemotherapeutic agents. XVI. Synthesis of  
 pyrimidines and fused pyrimidines as leishmanicides  
 AUTHOR(S): Ram, Vishnu J.  
 CORPORATE SOURCE: Med. Chem. Div., Cent. Drug Res. Inst., Lucknow, 226  
 001, India

SOURCE: J. Prakt. Chem. (1989), 331(6), 957-63  
 CODEN: JPCEAO; ISSN: 0021-8383  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 113:78321  
 GI



AB Various mono and bicyclic pyrimidine analogs were prep'd. as leishmanicides from 6-aryl-4-chloro-2-methylthiopyrimidine-5-carbonitrile, obtained from the halogenation of 6-aryl-3,4-dihydro-2-methylthio-4-oxopyrimidine-6-carbonitrile. Pyrimidine I showed leishmanicidal activity in hamster against *L. donovani*.

IT **128640-89-1P**  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. of)  
 RN 128640-89-1 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidine-2,4-diamine,  
 5-(3-methoxyphenyl)-7-(methylthio)-  
 (9CI) (CA INDEX NAME)

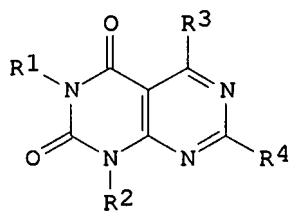


L4 ANSWER 23 OF 36 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 1987:162576 CAPLUS  
 DOCUMENT NUMBER: 106:162576  
 TITLE: Preparation and formulations of pyrimido[4,5-d]pyrimidine derivatives as antiallergics  
 INVENTOR(S): Kitamura, Norihiko; Onishi, Akimoto  
 PATENT ASSIGNEE(S): Nippon Zoki Pharmaceutical Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent

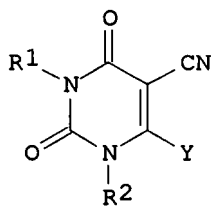
LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61249988	A2	19861107	JP 1985-90357	19850425
JP 06013518	B4	19940223		

GI



I



II

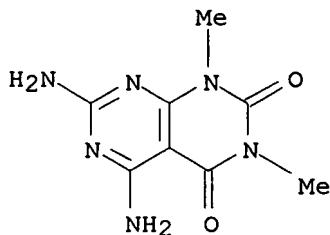
AB The title compds. (I; R1, R2 = alkyl; R3 = NH2, alkylamino; R4 = H, alkyl, Ph, NH2) are prepd. from uracil derivs. (I; R1 and R2 = alkyl; Y = NH2, halo, dialkylaminomethyleneamino) and H2NZ (Z = C:XR4; X = O, NH; R4 = H, alkyl, Ph, NH2). Thus, 6-amino-5-cyano-1,3-dimethyluracil was cyclized with formamide to give 5-amino-1,3-dimethylpyrimido[4,5-d]pyrimidine-2,4-dione (III). III at 100 mg/kg in rats inhibited allergic reactions. A tablet contained III 10, lactose 130, starch 40, and Mg stearate 10 mg.

IT 56007-62-6P

RL: PREP (Preparation)  
 (prepn. of, as antiallergic)

RN 56007-62-6 CAPLUS

CN Pyrimido[4,5-d]pyrimidine-2,4(1H,3H)-dione, 5,7-diamino-1,3-dimethyl-  
 (9CI) (CA INDEX NAME)



L4 ANSWER 24 OF 36 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1986:186439 CAPLUS

DOCUMENT NUMBER: 104:186439

TITLE: Pyrimidopyrimidinedione derivatives and their use as  
 anti-allergic agents

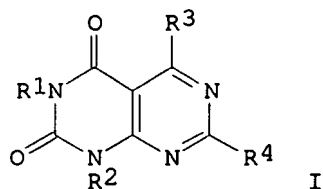
INVENTOR(S): Kitamura, Norihiko; Ohnishi, Akimoto

PATENT ASSIGNEE(S): Nippon Zoki Pharmaceutical Co., Ltd., Japan

SOURCE: Eur. Pat. Appl., 51 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 163599	A2	19851204	EP 1985-810182	19850424
EP 163599	A3	19870225		
EP 163599	B1	19900321		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
JP 60226882	A2	19851112	JP 1984-83557	19840424
JP 05059118	B4	19930830		
AT 51231	E	19900415	AT 1985-810182	19850424
US 4886807	A	19891212	US 1988-277447	19881129
PRIORITY APPLN. INFO.:			JP 1984-83557	19840424
			EP 1985-810182	19850424
			US 1985-726618	19850424

GI



AB The title compds. (I; R1 = alkyl; R2 = alkyl, Ph; R3 = H, alkyl, alkylamino; R4 = H, (halo)alkyl, Ph, amino, alkylamino) were prepd.

Thus,

6-amino-1,3-dimethyluracil underwent Vilsmeier reaction with HCONMe<sub>2</sub> to give 95% 5-[(dimethylamino)methylene]-5,6-dihydro-6-imino-1,3-dimethyluracil which was refluxed with thiourea in EtOH contg. NaOEt to give 52% I (R1 = R2 = Me, R3 = H, R4 = NH<sub>2</sub>) (II). In rats 20 mg II/kg orally gave 53.3% inhibition of passive cutaneous anaphylaxis reaction compared to 67.3% for theophylline.

IT **56007-62-6P 94839-44-8P 94839-45-9P**

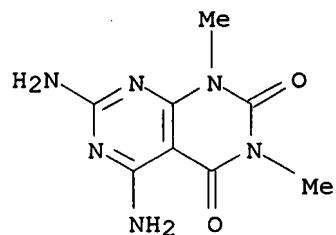
**101989-67-7P 101989-73-5P 101989-74-6P**

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of, as allergy inhibitor)

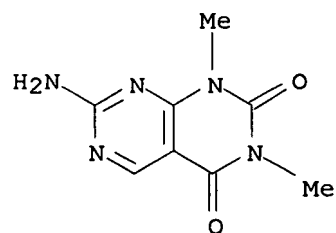
RN 56007-62-6 CAPLUS

CN Pyrimido[4,5-d]pyrimidine-2,4(1H,3H)-dione, 5,7-diamino-1,3-dimethyl- (9CI) (CA INDEX NAME)



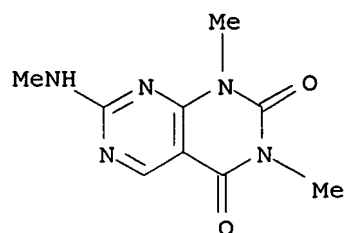
RN 94839-44-8 CAPLUS

CN Pyrimido[4,5-d]pyrimidine-2,4(1H,3H)-dione, 7-amino-1,3-dimethyl- (9CI)  
(CA INDEX NAME)



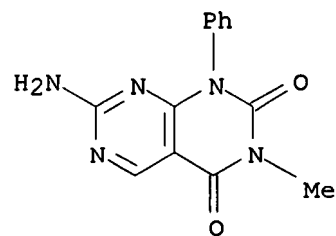
RN 94839-45-9 CAPLUS

CN Pyrimido[4,5-d]pyrimidine-2,4(1H,3H)-dione, 1,3-dimethyl-7-(methylamino)-  
(9CI) (CA INDEX NAME)

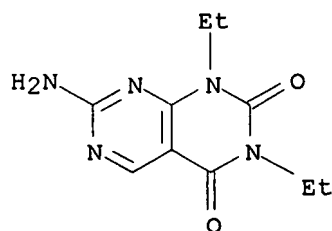


RN 101989-67-7 CAPLUS

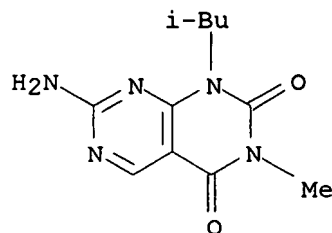
CN Pyrimido[4,5-d]pyrimidine-2,4(1H,3H)-dione, 7-amino-3-methyl-1-phenyl-  
(9CI) (CA INDEX NAME)



RN 101989-73-5 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidine-2,4(1H,3H)-dione, 7-amino-1,3-diethyl- (9CI)  
 (CA INDEX NAME)

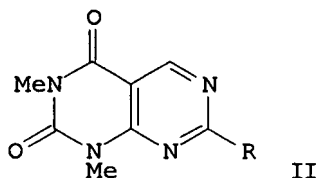
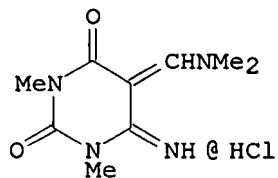


RN 101989-74-6 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidine-2,4(1H,3H)-dione, 7-amino-3-methyl-1-(2-methylpropyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 25 OF 36 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 1985:95601 CAPLUS  
 DOCUMENT NUMBER: 102:95601  
 TITLE: A facile synthesis of 7-substituted  
 pyrimido[4,5-d]pyrimidine-2,4-diones  
 AUTHOR(S): Hirota, Kosaku; Kitade, Yukio; Sajiki, Hironao; Maki,  
 Yoshifumi  
 CORPORATE SOURCE: Gifu Pharm. Univ., Gifu, 502, Japan  
 SOURCE: Synthesis (1984), (7), 589-90  
 CODEN: SYNTBF; ISSN: 0039-7881  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 GI





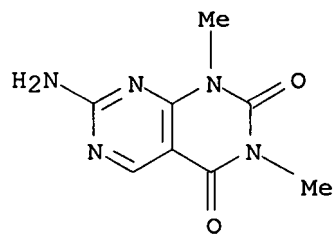
AB Cyclization of uracil I with  $RC(X)NH_2$  ( $R = H, Me, CF_3, Ph, H_2N, MeNH$ ;  $X = O, S, NH$ ) gave 52-92% 7 title compds. II.

IT 94839-44-8P 94839-45-9P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
(prepn. and spectra of)

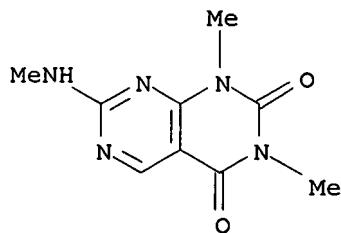
RN 94839-44-8 CAPLUS

CN Pyrimido[4,5-d]pyrimidine-2,4(1H,3H)-dione, 7-amino-1,3-dimethyl- (9CI)  
(CA INDEX NAME)



RN 94839-45-9 CAPLUS

CN Pyrimido[4,5-d]pyrimidine-2,4(1H,3H)-dione, 1,3-dimethyl-7-(methylamino)-  
(9CI) (CA INDEX NAME)



L4 ANSWER 26 OF 36 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1984:209737 CAPLUS

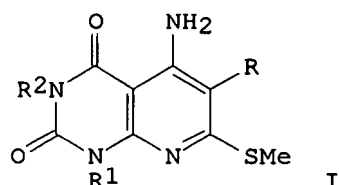
DOCUMENT NUMBER: 100:209737

TITLE: Reactions of 6-aminouracils with ketenethioacetals

AUTHOR(S): Tominaga, Yoshinori; Kohra, Shinya; Okuda, Hiroto;  
Ushirogochi, Atsuyuki; Matsuda, Yoshiro; Kobayashi,  
Goro

CORPORATE SOURCE: Fac. Pharm. Sci., Nagasaki Univ., Nagasaki, 852,  
Japan

SOURCE: Chem. Pharm. Bull. (1984), 32(1), 122-9  
 CODEN: CPBTAL; ISSN: 0009-2363  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 GI



AB Reaction of (MeS)<sub>2</sub>C:CRCN (R = CO<sub>2</sub>Me, SO<sub>2</sub>Ph) with 6-aminouracils in the presence of K<sub>2</sub>CO<sub>3</sub>, followed by cyclization under reflux in Ph<sub>2</sub>O gave the

5-amino-6-methoxycarbonyl-7-methylthiopyrido[2,3-d]-pyrimidine-2,4(1H,3H)-dione derivs. I (R = CO<sub>2</sub>Me, SO<sub>2</sub>Ph; R<sub>1</sub> = R<sub>2</sub> = Me; R<sub>1</sub> = Ph, R<sub>2</sub> = H). Reaction of other ketenethioacetals with 6-aminouracils directly afforded pyrido[2,3-d]pyrimidine derivs. in good yields. 5-Amino-7-methylthiopyrimido[4,5-d]pyrimidine-2,4(1H,3H)-dione derivs. were similarly

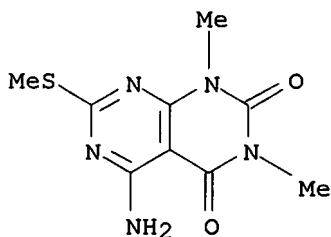
synthesized from 6-aminouracils and (MeS)<sub>2</sub>C:NCN.

IT 70371-52-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and hydrogenolysis of)

RN 70371-52-7 CAPLUS

CN Pyrimido[4,5-d]pyrimidine-2,4(1H,3H)-dione, 5-amino-1,3-dimethyl-7-(methylthio)- (9CI) (CA INDEX NAME)

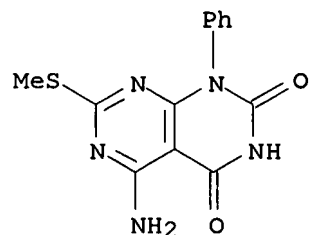


IT 70371-53-8P 70371-54-9P

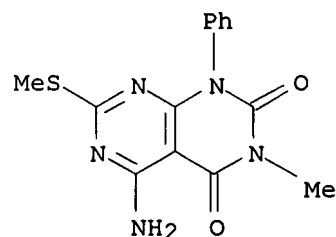
RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)

RN 70371-53-8 CAPLUS

CN Pyrimido[4,5-d]pyrimidine-2,4(1H,3H)-dione, 5-amino-7-(methylthio)-1-phenyl- (9CI) (CA INDEX NAME)



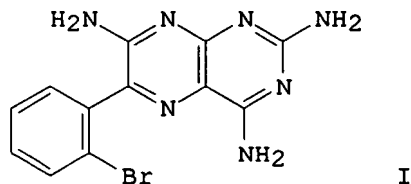
RN 70371-54-9 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidine-2,4(1H,3H)-dione, 5-amino-3-methyl-7-(methylthio)-1-phenyl- (9CI) (CA INDEX NAME)



L4 ANSWER 27 OF 36 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 1984:126903 CAPLUS  
 DOCUMENT NUMBER: 100:126903  
 TITLE: Antiglaucoma ophthalmic solutions containing tetraazabicyclic compounds.  
 INVENTOR(S): Horlington, Michael  
 PATENT ASSIGNEE(S): Smith and Nephew Associated Co. Ltd., UK  
 SOURCE: U.S., 10 pp. Cont.-in-part of U.S. Ser. No. 287,356.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 5  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4425346	A	19840110	US 1982-342655	19820125
US 4425344	A	19840110	US 1981-287356	19810727
PRIORITY APPLN. INFO.:			GB 1981-3917	19810209
			GB 1981-8537	19810318
			US 1981-287356	19810727
			GB 1980-25286	19800801
			GB 1981-521	19810108
			GB 1981-10448	19810402

GI

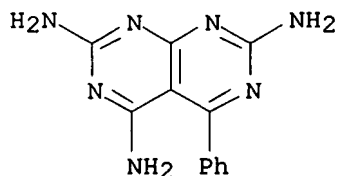


AB Sterile, nonirritant, nontoxic compns. for topical application to the eye for the treatment of glaucoma are prepd. contg. tetraazabicyclo compds. Thus, an aq. suspension which lowered ocular tension in the eye without changing the pupil diam. was prepd. contg. 0.5% 2,4,7-triamino-6-(2-bromophenyl)pteridine (I) [13510-74-2] and 50% poly(vinylpyrrolidone) [9003-39-8] in 100 mL H<sub>2</sub>O. The ophthalmic compns. may also contain suspending agents, e.g., hydroxyethyl cellulose [9004-62-0], surfactants, e.g. polyoxypropylene-polyoxyethylene copolymer [9003-11-6], solubilizing agents, e.g., proxyphylline [603-00-9] or diphylline [479-18-5], and a preservative, e.g., benzalkonium chloride. The effectiveness of a no. of tetraazabicyclic compds. was demonstrated on the ocular tension in rabbits' eyes by topical administration of solns. or suspensions of the compds. A 0.02% soln. of 2,4,7-triamino-6-(4-methylphenyl)pteridine [2853-71-6] contg. 6.0% dyphylline as solubilizer caused a lowering of intraocular pressure for a longer duration than did a suspension contg. 0.8% hydroxyethyl cellulose as suspending agent.

IT 5587-93-9 19796-54-4  
 RL: BIOL (Biological study)  
 (ophthalmic compns. for treatment of glaucoma contg.)

RN 5587-93-9 CAPLUS

CN Pyrimido[4,5-d]pyrimidine-2,4,7-triamine, 5-phenyl- (9CI) (CA INDEX NAME)



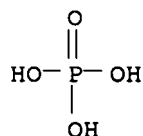
RN 19796-54-4 CAPLUS

CN Pyrimido[4,5-d]pyrimidine-2,4,7-triamine, 5-phenyl-, phosphate (1:1) (9CI)  
 (CA INDEX NAME)

CM 1

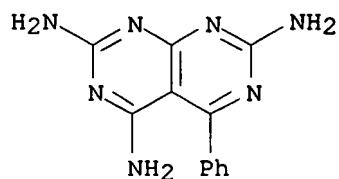
CRN 7664-38-2

CMF H3 O4 P



CM 2

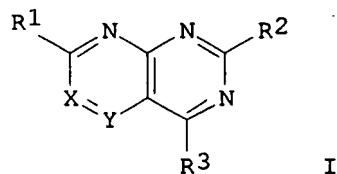
CRN 5587-93-9  
CMF C12 H11 N7



L4 ANSWER 28 OF 36 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 1982:622967 CAPLUS  
 DOCUMENT NUMBER: 97:222967  
 TITLE: Pharmaceutical composition containing aminopteridines  
 or aminopyrimido[4,5-d]pyrimidines  
 INVENTOR(S): Horlington, Michael; Scott, Lindsey Vivienne  
 PATENT ASSIGNEE(S): Smith and Nephew Associated Co. Ltd., UK  
 SOURCE: Eur. Pat. Appl., 43 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 5  
 PATENT INFORMATION:

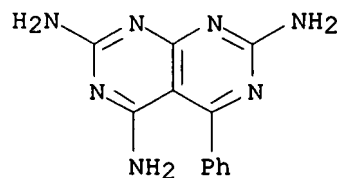
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 59524	A1	19820908	EP 1982-300117	19820111
R: BE, CH, DE, FR, GB, IT, NL, SE				
PRIORITY APPLN. INFO.:			GB 1981-3917	19810209
			GB 1981-8537	19810318

GI



AB Topical pharmaceuticals contg. the title compds. (I, X:Y = CR:N or N:CR;

at least 2 of R-R3 = NH2 and the others are H, alkyl, aryl, CONH2, halo  
 or alkoxy carbonyl) are used to treat ocular hypertension and glaucoma. The  
 compns. do not produce unacceptable levels of side effects such as  
 diuresis or pupil constriction. A suspension contains 0.5%  
 2,4,7-triamino-6-(2-bromophenyl)pteridine (I, X = CR, R = 2-BrC4H4, Y =  
 N;  
 R1 = R2 = R3 = NH2) [13510-74-2] in H2O with 50% poly(vinylpyrrolidone).  
 Ocular tension in rabbits was decreased 3.4 mm in 1 h after topical  
 application of this compn.  
 IT 5587-93-9 19796-54-4  
 RL: BIOL (Biological study)  
 (topical pharmaceuticals contg., for glaucoma treatment)  
 RN 5587-93-9 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidine-2,4,7-triamine, 5-phenyl- (9CI) (CA INDEX  
 NAME)

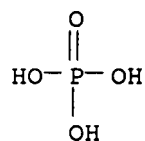


RN 19796-54-4 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidine-2,4,7-triamine, 5-phenyl-, phosphate (1:1)  
 (9CI)  
 (CA INDEX NAME)

CM 1

CRN 7664-38-2

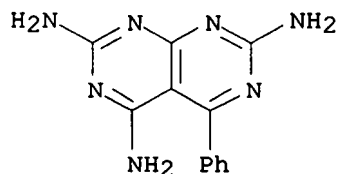
CMF H3 O4 P



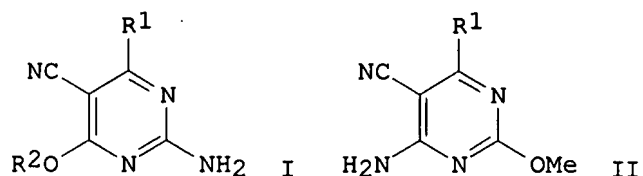
CM 2

CRN 5587-93-9

CMF C12 H11 N7

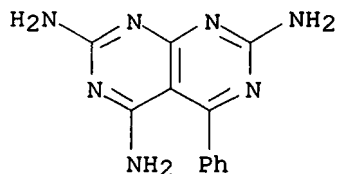


L4 ANSWER 29 OF 36 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 1982:122724 CAPLUS  
 DOCUMENT NUMBER: 96:122724  
 TITLE: Synthesis of 6-alkoxy-2-amino-5-cyanopyrimidines through sodium alkoxide-induced regiospecific cyclization of 1,3-dicarbonitriles  
 AUTHOR(S): Perez, Miguel A.; Soto, Jose L.  
 CORPORATE SOURCE: Fac. Quim., Univ. Complutense, Madrid, Spain  
 SOURCE: Synthesis (1981), (12), 955-8  
 CODEN: SYNTBF; ISSN: 0039-7881  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 GI

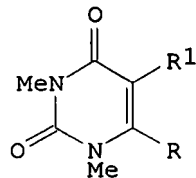


AB The reaction of  $R_1C(OR):C(CN)_2$  ( $R = Et, Me$ ;  $R_1 = H, Me, Ph, tolyl, anisyl, ClC_6H_4, O_2NC_6H_4$ ) with  $H_2NCN$  and  $NaOR_2-R_2OH$  ( $R_2 = Me, Et, Pr$ ) yielded the resp. pyrimidinecarbonitriles I. Similarly, pyrimidines II were prepd. from  $R_1C(OR):C(CN)_2$ ,  $H_2NC(OMe):N+H_2 Cl^-$ , and  $NaOMe-MeOH$ . A mixt. of  $EtOCH:C(CN)_2$ ,  $H_2NCH$ , and  $NaOMe$  in  $MeOH$  was refluxed to give I ( $R_1 = H, R_2 = Me$ ).

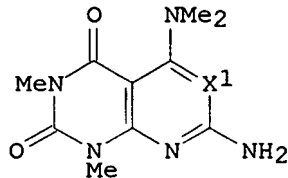
IT **5587-93-9P**  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. of)  
 RN 5587-93-9 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidine-2,4,7-triamine, 5-phenyl- (9CI) (CA INDEX NAME)



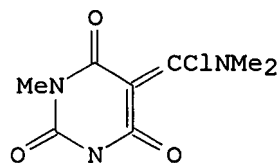
L4 ANSWER 30 OF 36 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 1981:156846 CAPLUS  
 DOCUMENT NUMBER: 94:156846  
 TITLE: Phosgeniminium salts. Part 28. Annellation of 5 or 6  
 membered heterocycles to uracil derivatives via  
 phosgeniminium salt condensation  
 AUTHOR(S): Kokel, B.; Lespagnol, C.; Viehe, H. G.  
 CORPORATE SOURCE: Lab. Chim. Org., Univ. Louvain, Louvain-la-Neuve,  
 B-1348, Belg.  
 SOURCE: Bull. Soc. Chim. Belg. (1980), 89(8), 651-7  
 CODEN: BSCBAG; ISSN: 0037-9646  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 GI



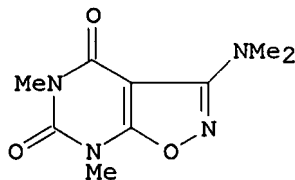
I



II



III

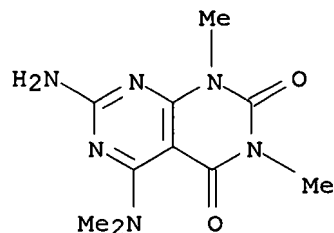


IV

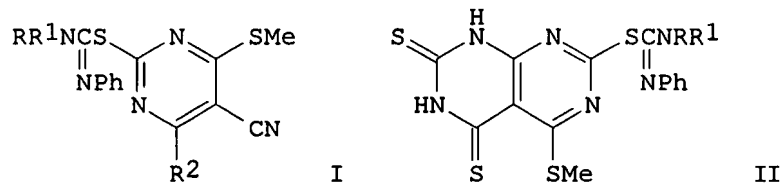
AB Reaction of the uracil I (R = NH<sub>2</sub>, R<sub>1</sub> = H) with Me<sub>2</sub>N<sup>+</sup>:CCl<sub>2</sub>Cl<sup>-</sup> gave I (R = NH<sub>2</sub>, R<sub>1</sub> = CCl:N+Me<sub>2</sub>Cl<sup>-</sup>) which reacted with nucleophiles to give I [R = NH<sub>2</sub>, R<sub>1</sub> = CXNMe<sub>2</sub>, X = O, NPh, NNH<sub>2</sub>, NCN, C(CN)<sub>2</sub>]. The latter 2 compds. were hydrolyzed to II (X<sub>1</sub> = N, CCN). Reaction of, I (R = OH, R<sub>1</sub> = H) with Me<sub>2</sub>N<sup>+</sup>:CCl<sub>2</sub>Cl<sup>-</sup> gave III which also reacted with nucleophiles to give I (R = OH, R<sub>1</sub> = CXNMe<sub>2</sub>, X = NH, NPh, NOH). The latter compd. was cyclized by heating to IV.  
 IT 77008-19-6P  
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)



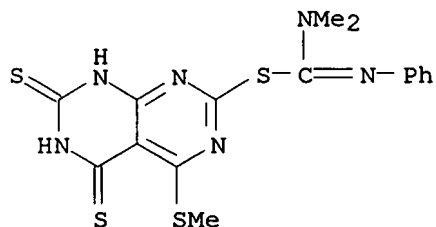
RN 77008-19-6 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidine-2,4(1H,3H)-dione,  
 7-amino-5-(dimethylamino)-1,3-  
 dimethyl- (9CI) (CA INDEX NAME)



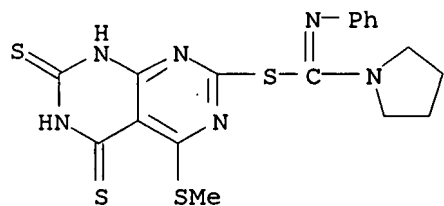
L4 ANSWER 31 OF 36 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 1981:121455 CAPLUS  
 DOCUMENT NUMBER: 94:121455  
 TITLE: Reaction of thiobisformamidine; 7. Synthesis of  
 pyrimidino[4,5-d]pyrimidine derivatives  
 AUTHOR(S): Evers, Rainer; Fischer, Eberhard  
 CORPORATE SOURCE: Sekt. Chem., Wilhelm-Pieck-Univ. Rostock, Rostock,  
 DDR-2500, Ger. Dem. Rep.  
 SOURCE: Z. Chem. (1980), 20(11), 412-13  
 CODEN: ZECEAL; ISSN: 0044-2402  
 DOCUMENT TYPE: Journal  
 LANGUAGE: German  
 GI



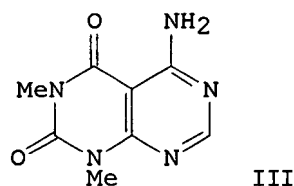
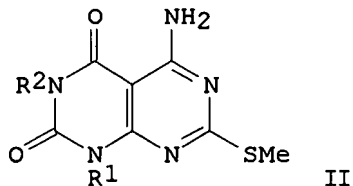
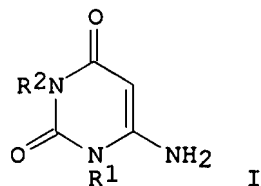
AB Reaction of I [R = R1 = Me, Et; RR1 = (CH2)4; R2 = NH2] with R3NCZ (R3 =  
 Ph, 3-ClC6H4, 3,4-Cl2C6H3; Z = O, S) gave the corresponding I [R2 =  
 NHC(Z)NHR3], whereas reaction with EtOCS2K gave II.  
 IT **76884-26-9P 76884-27-0P**  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. of)  
 RN 76884-26-9 CAPLUS  
 CN Carbamimidothioic acid, N,N-dimethyl-N'-phenyl-, 1,5,6,7-tetrahydro-4-  
 (methylthio)-5,7-dithioxopyrimido[4,5-d]pyrimidin-2-yl ester (9CI) (CA  
 INDEX NAME)



RN 76884-27-0 CAPLUS  
 CN 1-Pyrrolidinecarboximidothioic acid, N-phenyl-, 1,5,6,7-tetrahydro-4-(methylthio)-5,7-dithioxopyrimido[4,5-d]pyrimidin-2-yl ester (9CI) (CA INDEX NAME)



L4 ANSWER 32 OF 36 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 1979:405192 CAPLUS  
 DOCUMENT NUMBER: 91:5192  
 TITLE: Synthesis of pyrimido[4,5-d]pyrimidines  
 AUTHOR(S): Tominaga, Yoshinori; Okuda, Hiroto; Mitsutomi, Yoshiro; Matsuda, Yoshiro; Kobayashi, Goro; Sakemi, Kanro  
 CORPORATE SOURCE: Fac. Pharm. Sci., Nagasaki Univ., Nagasaki, 852, Japan  
 SOURCE: Heterocycles (1979), 12(4), 503-4  
 CODEN: HTCYAM; ISSN: 0385-5414  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 GI



AB Reaction of aminouracil I (R1 = R2 = Me; R1 = Ph, R2 = H, Me) with (MeS)2C:NCN in DMF contg. K2CO3 gave 38-72% II. Redn. of II (R1 = R2 =

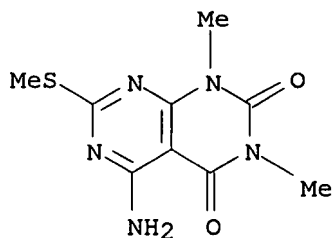
Me) with Raney Ni gave III.

IT **70371-52-7P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)  
(prepn. and desulfurization of)

RN 70371-52-7 CAPLUS

CN Pyrimido[4,5-d]pyrimidine-2,4(1H,3H)-dione, 5-amino-1,3-dimethyl-7-(methylthio)- (9CI) (CA INDEX NAME)

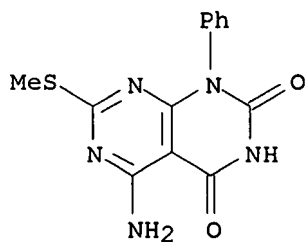


IT **70371-53-8P 70371-54-9P**

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of)

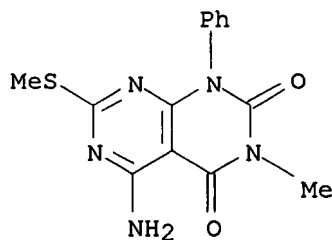
RN 70371-53-8 CAPLUS

CN Pyrimido[4,5-d]pyrimidine-2,4(1H,3H)-dione, 5-amino-7-(methylthio)-1-phenyl- (9CI) (CA INDEX NAME)



RN 70371-54-9 CAPLUS

CN Pyrimido[4,5-d]pyrimidine-2,4(1H,3H)-dione, 5-amino-3-methyl-7-(methylthio)-1-phenyl- (9CI) (CA INDEX NAME)



DOCUMENT NUMBER: 85:8093  
 TITLE: Functional fluid compositions containing substituted pyrimidines  
 INVENTOR(S): Sullivan, James D.  
 PATENT ASSIGNEE(S): Monsanto Co., USA  
 SOURCE: U.S., 10 pp.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

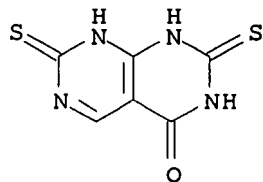
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3939084	A	19760217	US 1973-429451	19731228
NL 6704601	A	19671009	NL 1967-4601	19670331
ES 338687	A1	19680401	ES 1967-338687	19670331
BE 696664	A	19671005	BE 1967-696664	19670405
IL 27743	A1	19710128	IL 1967-27743	19670405
BR 6788302	A0	19730109	BR 1967-188302	19670405
GB 1188813	A	19700422	GB 1967-1188813	19670406
GB 1192910	A	19700528	GB 1967-1192910	19670406
US 3591500	A	19710706	US 1969-796885	19690205
US 3752764	A	19730814	US 1971-156134	19710623
US 3759829	A	19730918	US 1971-156133	19710623
US 3788992	A	19740129	US 1971-156135	19710623
PRIORITY APPLN. INFO.:			US 1966-540488	19660406
			US 1969-796885	19690205
			US 1971-156133	19710623
			US 1972-316159	19721218

AB Jet engine lubricants and hydraulic fluids comprise a major amt. of compds. of lubricating viscosity, selected from polyphenyl thioethers and mixed polyphenyl oxy- and thioethers, or mixts. thereof and a corrosion inhibiting amt. of 4-aminopyrazolo[3,4-d]pyrimidine [2380-63-4] or 7-amino-1-v-triazolo[d]pyrimidine (I) [1123-54-2]. Thus, a mixt. of m-bis(phenylthio)benzene [2974-10-9], 50, m-phenoxyphenyl m-phenylthiophenyl sulfide [7372-94-3], 25, bis(m-phenoxyphenyl) sulfide [7372-93-2], 11, bis(m-phenylthiophenyl) sulfide [2392-84-9], 14 wt.%, with 1% I added, when tested for corrosion by MIL-L-9236A except at 500.degree.F, had essentially no effect on steel, Ti, Mg alloy, or Al alloy, but gave loss in mg/cm2 of .01 for Cu and .22 for Ag.

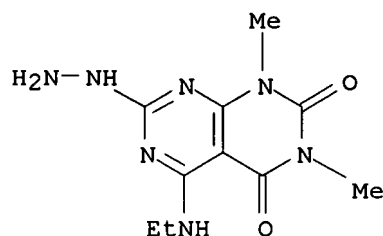
IT **6306-09-8**  
 RL: USES (Uses)  
 (antioxidants, for thioether hydraulic fluids)

RN 6306-09-8 CAPLUS

CN Pyrimido[4,5-d]pyrimidin-4(1H)-one, 2,3,6,7-tetrahydro-2,7-dithioxo-(9CI)  
 (CA INDEX NAME)

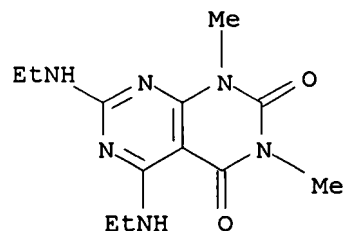


L4 ANSWER 34 OF 36 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 1976:74208 CAPLUS  
 DOCUMENT NUMBER: 84:74208  
 TITLE: Cycloacylation of enamines. III. Synthesis and reactions of pyrimido[4,5-d]pyrimidines  
 AUTHOR(S): Grohe, Klaus; Heitzer, Helmut  
 CORPORATE SOURCE: Zent. Forsch., Bayer A.-G., Leverkusen, Ger.  
 SOURCE: Justus Liebigs Ann. Chem. (1975), Volume Date 1974, (12), 2066-73  
 CODEN: JLACBF  
 DOCUMENT TYPE: Journal  
 LANGUAGE: German  
 GI For diagram(s), see printed CA Issue.  
 AB Reaction of the 4-aminouracils I with Cl<sub>3</sub>CN:CCl<sub>2</sub>, Cl<sub>3</sub>CCCl:NCCl<sub>2</sub>CCl<sub>3</sub>, PhCCl<sub>2</sub>N:CCl<sub>2</sub>, or Cl<sub>3</sub>CCCl<sub>2</sub>NCO gave by cycloacylation the pyrimidopyrimidines II (R = Me, CH<sub>2</sub>CH<sub>2</sub>Ph, CH<sub>2</sub>:CHCH<sub>2</sub>, or H; R<sub>1</sub> = Me, R<sub>2</sub> = CCl<sub>3</sub>, R<sub>3</sub> = Cl), II (R = R<sub>1</sub> = Me, R<sub>2</sub> = Cl, R<sub>3</sub> = Ph) and II (R = R<sub>1</sub> = Me, R<sub>2</sub> = Ph, R<sub>3</sub> = Cl), or II (R = R<sub>1</sub> = Me, R<sub>2</sub> = CCl<sub>3</sub>, R<sub>3</sub> = OH), resp. Some nucleophilic substitution reactions of III were reported.  
 IT **56007-74-0P**  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and reaction with nitrofuraldehyde)  
 RN 56007-74-0 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidine-2,4,7(1H,3H,6H)-trione, 5-(ethylamino)-1,3-dimethyl-, 7-hydrazone (9CI) (CA INDEX NAME)



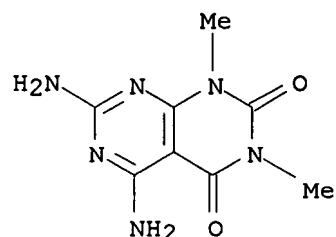
IT **56007-61-5P 56007-62-6P 56007-63-7P**  
**56007-64-8P 56007-65-9P 56007-66-0P**  
**56007-71-7P 56007-72-8P 56007-73-9P**  
**56007-75-1P**  
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)  
 RN 56007-61-5 CAPLUS

CN Pyrimido[4,5-d]pyrimidine-2,4(1H,3H)-dione, 5,7-bis(ethylamino)-1,3-dimethyl- (9CI) (CA INDEX NAME)



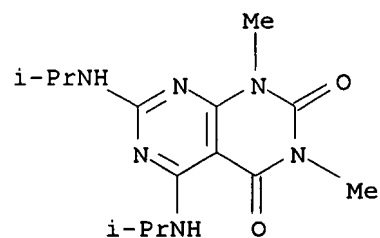
RN 56007-62-6 CAPLUS

CN Pyrimido[4,5-d]pyrimidine-2,4(1H,3H)-dione, 5,7-diamino-1,3-dimethyl- (9CI) (CA INDEX NAME)



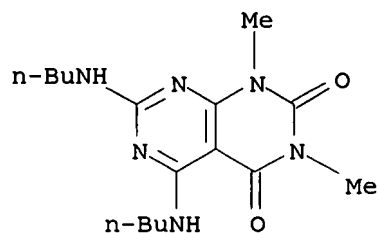
RN 56007-63-7 CAPLUS

CN Pyrimido[4,5-d]pyrimidine-2,4(1H,3H)-dione, 1,3-dimethyl-5,7-bis[(1-methylethyl)amino]- (9CI) (CA INDEX NAME)



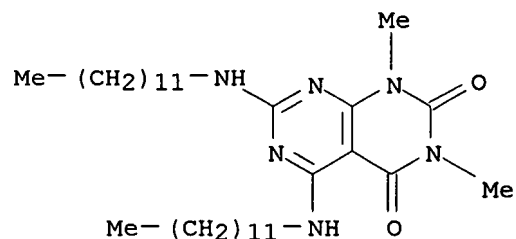
RN 56007-64-8 CAPLUS

CN Pyrimido[4,5-d]pyrimidine-2,4(1H,3H)-dione, 5,7-bis(butylamino)-1,3-dimethyl- (9CI) (CA INDEX NAME)



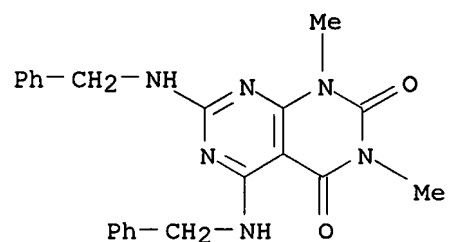
RN 56007-65-9 CAPLUS

CN Pyrimido[4,5-d]pyrimidine-2,4(1H,3H)-dione, 5,7-bis(dodecylamino)-1,3-dimethyl- (9CI) (CA INDEX NAME)



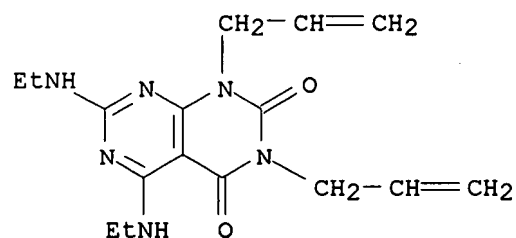
RN 56007-66-0 CAPLUS

CN Pyrimido[4,5-d]pyrimidine-2,4(1H,3H)-dione, 1,3-dimethyl-5,7-bis[(phenylmethyl)amino]- (9CI) (CA INDEX NAME)

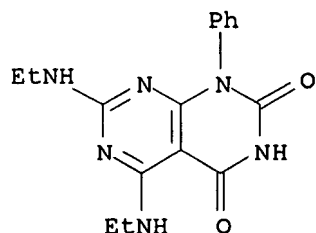


RN 56007-71-7 CAPLUS

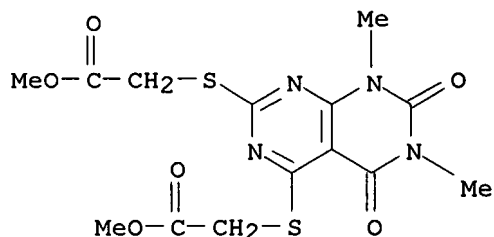
CN Pyrimido[4,5-d]pyrimidine-2,4(1H,3H)-dione, 5,7-bis(ethylamino)-1,3-di-2-propenyl- (9CI) (CA INDEX NAME)



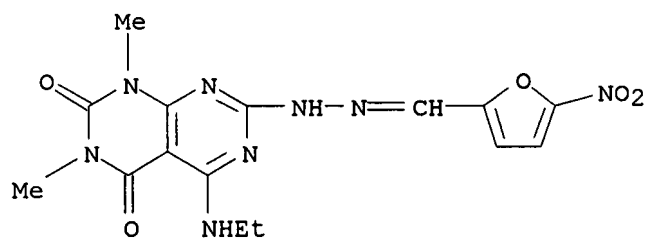
RN 56007-72-8 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidine-2,4(1H,3H)-dione, 5,7-bis(ethylamino)-1-phenyl-  
 (9CI) (CA INDEX NAME)



RN 56007-73-9 CAPLUS  
 CN Acetic acid,  
 2,2'-[(5,6,7,8-tetrahydro-6,8-dimethyl-5,7-dioxypyrimido[4,5-  
 d]pyrimidine-2,4-diyl)bis(thio)]bis-, dimethyl ester (9CI) (CA INDEX  
 NAME)



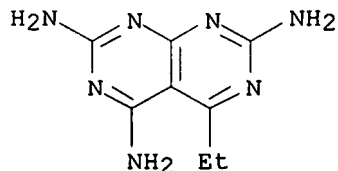
RN 56007-75-1 CAPLUS  
 CN 2-Furancarboxaldehyde, 5-nitro-, [4-(ethylamino)-5,6,7,8-tetrahydro-6,8-  
 dimethyl-5,7-dioxypyrimido[4,5-d]pyrimidin-2-yl]hydrazone (9CI) (CA  
 INDEX NAME)



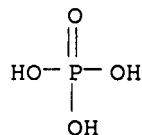
L4 ANSWER 35 OF 36 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 1968:467339 CAPLUS  
 DOCUMENT NUMBER: 69:67339  
 TITLE: Pteridines. X. Some pyrimidopyrimidine isomers of  
 triamterene  
 AUTHOR(S): Graboyes, Harold; Jaffe, Gerald E.; Pachter, Irwin  
 J.;



CORPORA TE SOURCE: Rosenbloom, Joanne P.; Villani, Anthony J.; Wilson, James W.; Weinstock, Joseph  
 SOURCE: Res. and Develop. Div., Smith Kline and French Lab., Philadelphia, Pa., USA  
 J. Med. Chem. (1968), 11(3), 568-73  
 CODEN: JMCMAR  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 AB 2,4,7-Triamino-5-phenylpyrimido[4,5-d]pyrimidine was prepd. by the condensation of guanidine with 2,6-diamino-5-cyano-4-phenylpyrimidine. Similar reactions gave 5-alkyl analogs of this compd. An attempt to use 4-amino-5-cyano-2,6-dimethylpyrimidine in this reaction gave 2,4,7-triamino-5-methylpyrimido[4,5-d]pyrimidine in contrast to the diphenyl analog which gave the expected product. 2,4,5-Triamino-7-phenylpyrimido[4,5-d]pyrimidine was prepd. by the fusion of guanidine carbonate with 4-amino-5-cyano-6-(methylthio)-2-phenylpyrimidine. 2,4,8-Triamino-6-phenylpyrimido[5,4-d]pyrimidine was prepd. by condensation of Me 2,4,5-triaminopyrimidine-6-carboxylate with benzamidine to form 2,4-diamino-8-hydroxy-6-phenylpyrimido[5,4-d]pyrimidine followed by deoxychlorination and amination. 18 references.  
 IT 19208-79-8P 19796-54-4P 19796-75-9P  
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)  
 RN 19208-79-8 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidine, 2,4,7-triamino-5-ethyl- (8CI) (CA INDEX NAME)

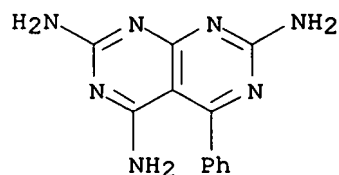


RN 19796-54-4 CAPLUS  
 CN Pyrimido[4,5-d]pyrimidine-2,4,7-triamine, 5-phenyl-, phosphate (1:1) (9CI)  
 (CA INDEX NAME)  
 CM 1  
 CRN 7664-38-2  
 CMF H3 O4 P

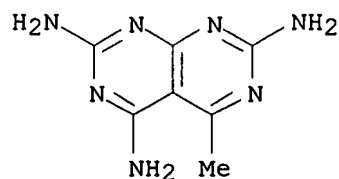


CM 2

CRN 5587-93-9  
CMF C12 H11 N7



RN 19796-75-9 CAPLUS  
CN Pyrimido[4,5-d]pyrimidine, 2,4,7-triamino-5-methyl-, monohydrochloride  
(8CI) (CA INDEX NAME)



● HCl

L4 ANSWER 36 OF 36 CAPLUS COPYRIGHT 2001 ACS  
ACCESSION NUMBER: 1968:452104 CAPLUS  
DOCUMENT NUMBER: 69:52104  
TITLE: Pteridines. XII. Structure-activity relation of  
some  
pteridine diuretics  
AUTHOR(S): Weinstock, Joseph; Wilson, James W.; Wiebelhaus,  
Virgil D.; Maass, Alfred R.; Brennan, Francis T.;  
Sosnowski, Genevieve  
CORPORATE SOURCE: Res. and Develop. Div., Smith Kline and French Lab.,  
Philadelphia, Pa., USA  
SOURCE: J. Med. Chem. (1968), 11(3), 573-9  
CODEN: JMCMAR  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
AB The diuretic activity of pteridines related to 2,4,7-triamino-6-  
phenylpteridine (triamterene), 2,4-diamino-6,7-dimethylpteridine (I), and  
4,7-diamino-2-phenyl-pteridine-6-carboxamide was studied in the  
saline-loaded and sodium-deficient rat. A limited no. of related  
pyrimidopyrimidines were similarly studied. Some of the compds. related  
to triamterene and I not only cause Na<sup>+</sup> excretion but also conserve K<sup>+</sup>.  
All the 2-phenylpteridines that were studied which are active natriuretic  
agents also cause K<sup>+</sup> excretion. In the triamterene series, replacement  
of

any of the amino groups by either a large amine or a nonbasic group other than H leads to redn. of diuretic activity. Replacement of the Ph by a small, nonbasic group gives active diuretic agents, but an aromatic (or heteroaromatic) group seems desirable for highest activity. Some variation in the substitution pattern on the pteridine ring is permissible

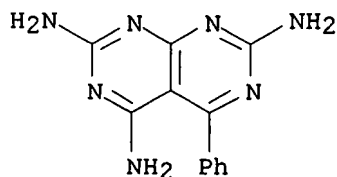
as demonstrated by the activity of the triamterene isomers. The 7-Ph isomer is outstanding as a blocker of K<sup>+</sup> excretion.

IT 5587-93-9 19148-44-8 19208-78-7  
19208-79-8

RL: RCT (Reactant)  
(as diuretic)

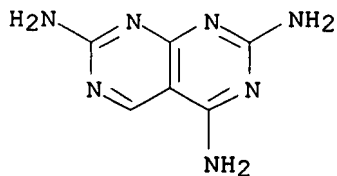
RN 5587-93-9 CAPLUS

CN Pyrimido[4,5-d]pyrimidine-2,4,7-triamine, 5-phenyl- (9CI) (CA INDEX NAME)



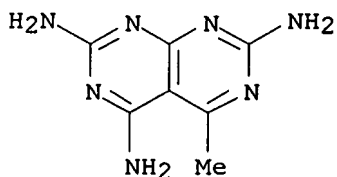
RN 19148-44-8 CAPLUS

CN Pyrimido[4,5-d]pyrimidine, 2,4,7-triamino- (6CI, 8CI) (CA INDEX NAME)



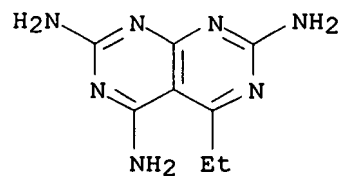
RN 19208-78-7 CAPLUS

CN Pyrimido[4,5-d]pyrimidine, 2,4,7-triamino-5-methyl- (8CI) (CA INDEX NAME)



RN 19208-79-8 CAPLUS

CN Pyrimido[4,5-d]pyrimidine, 2,4,7-triamino-5-ethyl- (8CI) (CA INDEX NAME)



=> d his

(FILE 'HOME' ENTERED AT 10:50:03 ON 31 JAN 2001)

FILE 'REGISTRY' ENTERED AT 10:50:09 ON 31 JAN 2001

L1 STRUCTURE UPLOADED  
 L2 9 S L1  
 L3 510 S L1 FUL

FILE 'CAPLUS' ENTERED AT 10:50:56 ON 31 JAN 2001

L4 36 S L3

=> log y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	153.75	287.46
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-21.17	-21.17

STN INTERNATIONAL LOGOFF AT 10:56:06 ON 31 JAN 2001